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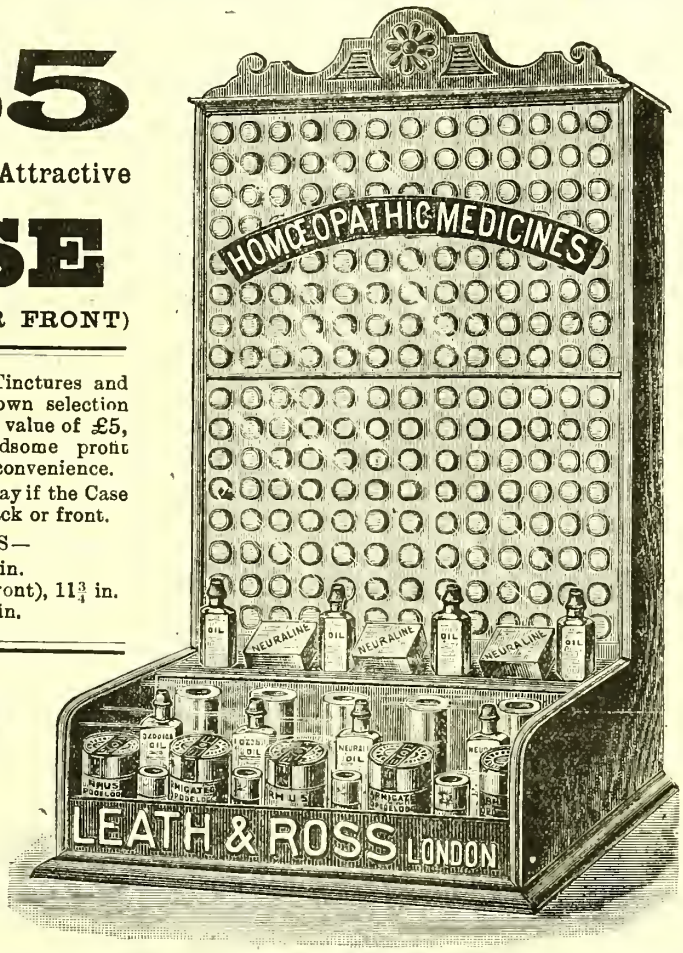

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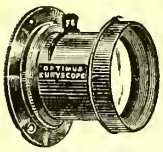

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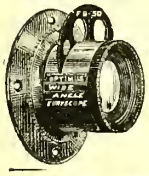

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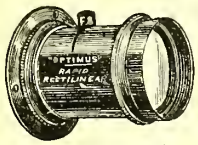

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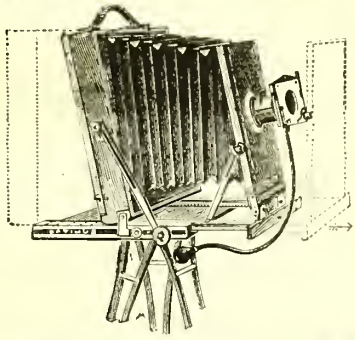

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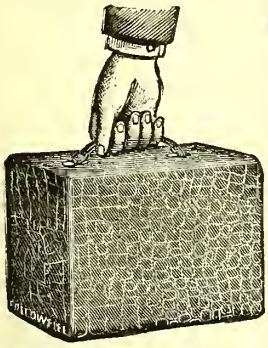

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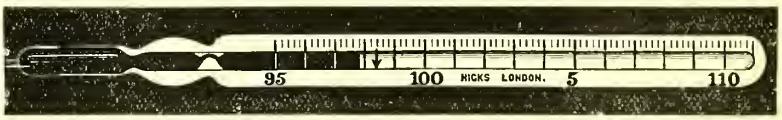

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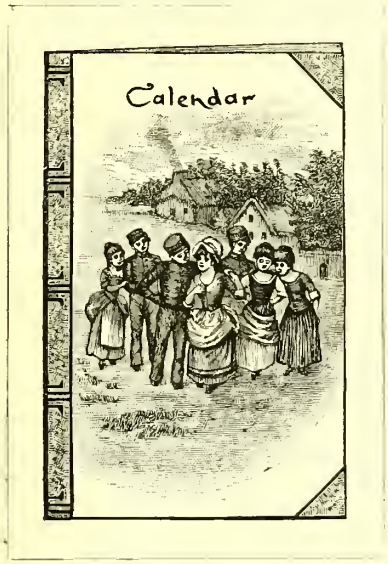

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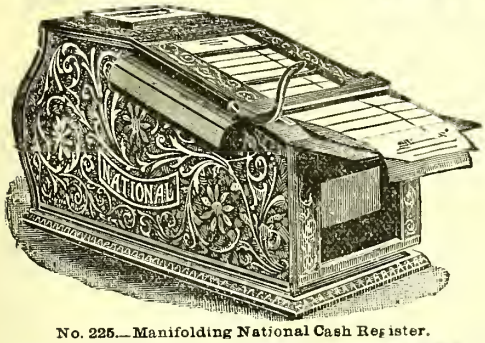

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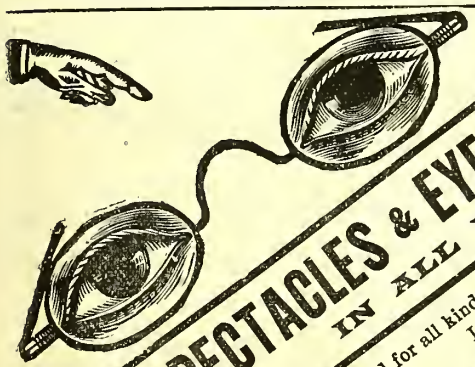

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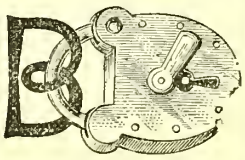

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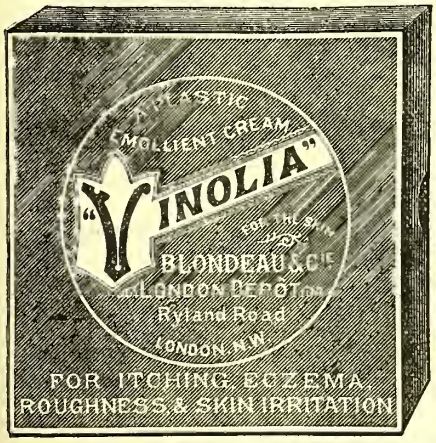

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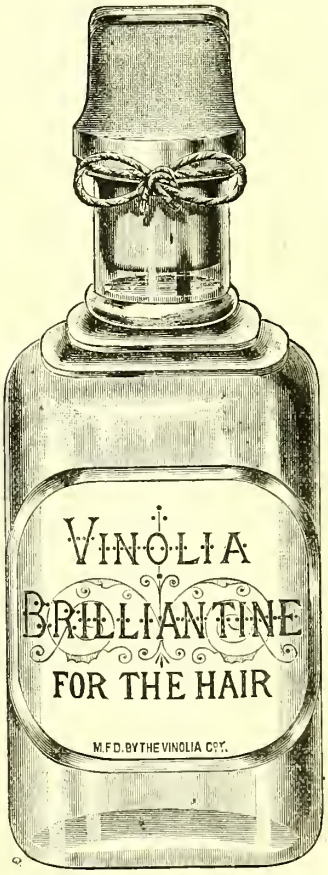

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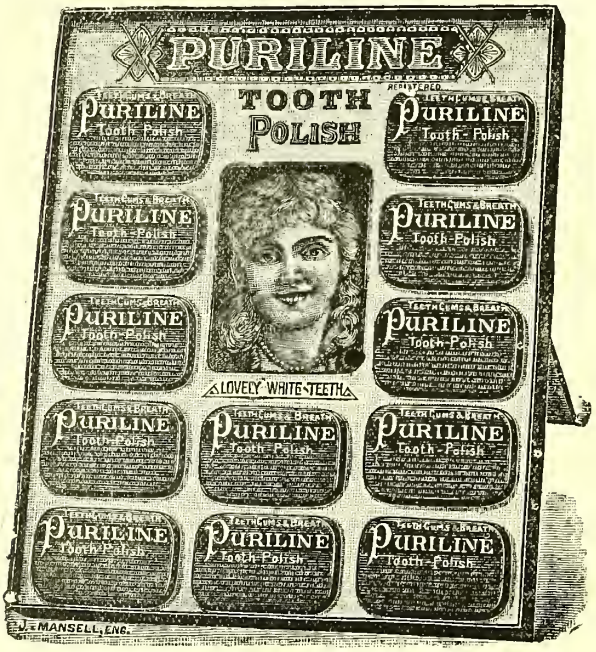

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WE have much pleasure in announcing the fact that we are able to offer to the Trade a series of absolutely pure

OILS OF LEMON, ORANGE, BERGAMOT, AND TANGERINE.

Every pound of our finest Selected qualities has been made under the personal supervision of one of our representatives, who ships direct to us without the intervention of any Messina mixing house. It may not be generally known to buyers that Sicilian Oils are chiefly manufactured by small farmers, who sell their products in a pure state to various so-called manufacturing firms, whose province it is to mix these pure oils with varying proportions of turpentine and other adulterants, and ship to this country for sale to consumers. The demands of the Trade have risen superior to these concoctions.

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FLOWER POMADES at the highest possible Saturation. ROSE & ORANGE FLOWER WATER, Sweet Almond Oil.

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In Brass Boxes only,
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These Cachoux are delicately flavoured
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BREATH PERFUME
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Public.

PRINCE ALBERT'S CACHOUX

They look well,
they sell well,
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Sample gross for 36/- on receipt of cash.

FROM THE LABORATORY OF (c)
THOMAS JACKSON, MANCHESTER.

Are fitted with the
ALBERT GATE for paying
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Pure Lard	1/	lb.
Benzd. Lard	1/1	,,
Beef Marrow	1/4	,,
Beef Suet	1/	,,
Mutton Suet	/9	,,
Neatsfoot Oil	1/6	,,
Trotter Oil	1/6	,,
Zinc Ointment	1/6	,,

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Violet Powder	/10	lb.
Cosmetiques	3/	doz.
Tooth Powder	3/6	,,
Camphor Rolls	3/3	,,
Pomades	3/6	,,
Brilliantine	7/	,,
Soft Soap, B.P.	/8	lb.
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BEST & SAFEST DENTIFRICE
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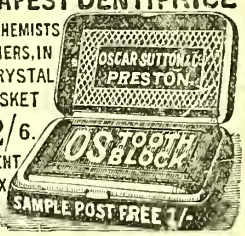

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Through any
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The increasing demand for these celebrated Smelling Salts has induced the Proprietor to bring them out in a more portable and elegant form than hitherto supplied. The New-shaped Bottles will be found well worth the attention of the Trade.

WHITE FLINT GLASS, Handsomely Cut, 4 Sizes, Retail 6d., 1/6, 2/-, 2/6
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SMELLING SALTS.—The MONOCARBONATE OF AMMONIA, manufactured by ALFRED ALLCHIN, is the Neutral Salt so much valued for the preparation of Smelling Salts. It retains its pungency as long as any Salt remains. 1-lb. bottles, 2*s.* 8*d.* each.

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PUNGENTS, with handsome Cut Stoppers, filled with Allchin's Smelling Salts, 8*s.* per doz.; retail 1*s.*

OL. ROSÆ CONCENT.—One ounce of this Concentrated Solution of Anchusine, mixed with two pounds of Oil will give it the usual colour; it is also admirably adapted for colouring Pomades, Lip Salve, Camphor Balls, &c. 4*s.* per lb.

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SIX PRIZE MEDALS AT GREAT EXHIBITIONS FOR EXCELLENCE AND PURITY.

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POSITIVELY THE BEST DRESSING
FOR STRENGTHENING, BEAUTIFYING, AND PRESERVING THE HAIR.

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1s., 2s. 6d., 3s. 6d., and 5s. 6d. per Bottle, from Chemists, Hairdressers, and Perfumers all over the world.

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W. & J. JAMIESON

Manufacturers of Dental Materials,

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Telegraphic Address—"DENTAL LONDON."

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PORTABLE DENTIFRICE.

120 Tablets, 1/- per box.

Fragrant Bouquet Tooth Soap

6*d*., 1/-, and 2/- per box.

RUBILINE

AN EXQUISITE LIQUID DENTIFRICE.

1/6 and 3/- per bottle.

APONIA TOOTHACHE PLASTERS

1/1½ per box.

EVERY DENTAL REQUISITE.

HOW 20/- WILL MAKE £100.

You will not find a **better** scope for making money in all these pages.

My valuable recipes, which have been before the Trade for 15 years, have been the stepping-stones to many a big concern. See Exchange Column, and send at once for List.

For a 5/- **Postal Order** I will send half-a-dozen valuable recipes by the aid of which you can make pounds. The following are a good sample, but any others might be selected from my detailed printed lists of 480, which I will send, post free, anywhere :—

Glycerine Cream; most useful and elegant. Unequalled.
Tic Specific; acts like magic. Cures after all others fail.
White Oils; a perfect liniment, snow-white and inseparable.
Toothache Cure; instant ease. Not injurious to other teeth.
Occasional Mixture for Ladies; safe, but very certain.
Glycerine and Licorice Balm; pleasant taste, very efficacious, and cheap.

EXTRA SPECIAL RECIPES.

5/- each, or 3 for 10/-

Aniline Marking Ink; best ink ever sold. Perfectly indelible.
Balsamic Linctus; permanently brilliant, cherry red, no narcotic, pleasant, most efficacious, and very cheaply produced.
Circassian Stimulant; best Hair Producer and Restorer, and most elegant preparation in the market.

GOOD GOODS. SELL FREELY, PAY WELL.

2d. Solid Perfumes; 6 kinds; sweet and lasting.
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In order to place these goods in the hands of the million, I will send 6 dozen assorted or otherwise, carriage paid, for 5/-, as a trial order only.

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(ESTABLISHED IN 1840),

SOLE MAKERS IN GREAT BRITAIN OF

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COLOURED SIDE MARK, LABEL, AND OTHER SPECIALITY CAPSULES

(For the Prevention of Fraud and Refilling of Old Labelled Bottles), as supplied to Bass & Co., Hennessy and Martell Cognac, and the leading Brewers and Bottlers of Wines and Spirits throughout Europe.

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Manufacturers of Pure English-made Bottling and Package Tinfoil, from 1*s*. per lb. and upwards; **Mixed Foil** (Foreign Quality), from 6d. per lb. (according to gauge); **Patent Barrel Packages and Snuff Canisters, Tea Packages, &c.**

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Largely in use by the Trade, and efficiency guaranteed for all sizes of Bottles, at Royalties from 5*s*. to £2 2*s*. per annum.

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(DODD'S PATENT.)

DODD BROS. desire to draw the attention of the trade to their Borax and Camphor Soap, the demand for which is being rapidly created, and it finds a ready sale wherever introduced. It is specially adapted for washing the Hair, and is invaluable for the Skin, Bath, and Toilet. It is packed in handsome carton cases, and retails at 6d. One-dozen box makes an attractive show.

Artistic Showcards and Handbills on application to any Wholesale House, or to Dodd Bros., Stamford Hill, London, N.

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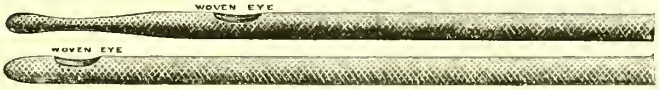
SOFT SILK FLEXIBLE CATHETER GUARANTEED WITH WOVEN EYES

To be had of all Surgical Instrument Makers and Wholesale Houses.



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Particular attention paid to the manufacture of goods suitable for warm climates.

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OILS, DRYSALTERIES,

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PERFECTLY PURE.

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PURE ORANGE WINE.

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PURE GINGER WINE.

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SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY.

Per doz. 42/- Per doz. THE CREAM OF SCOTCH BLENDS. Per doz. 42/- Per doz.

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JAMES BURROUGH

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CALE ST., CHELSEA, S.W.

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AT LOWEST PRICES.

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MOST SUITABLE BASIS FOR QUININE AND OTHER MEDICATED WINES.

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Of Finest Flavour and Quality, and specially suitable for the Preparation of Orange Quinine Wine.

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MAKES THE FINEST NON-INTOXICATING DRINK IN THE MARKET.

This Purely Botanic Extract is composed of the Best English Herbs, including Hops, Dandelion, Horehound, and Gentian.

As a Dinner or Supper Beverage it is unequalled.
Its Tonic & Purifying Properties render it very beneficial.
It is now drunk in all parts of the World.

A Sixpenny Bottle will make Eight Gallons of Splendid Botanic Beer. Price 3/6 per dozen. Gross quantities at 3/3 per dozen.

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TONIC HERBS (2*d.*) for making Herb Beer, 12/- per gross.

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INGREDIENTS MAKING JAMAICA SARSAPARILLA COMPOUND.
1/- Packets, 7/- dozen. 6*d.* packets, 4/- dozen.

MEDICINAL HERBS (1*d.* packets), 85 varieties ... ... 7/- per gross.
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PRICE LISTS ON APPLICATION POST FREE.

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This Section of "The Chemist and Druggist" must be closed for press by Wednesday morning's post of each week. Remittances payable to EDWARD HALSE.

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Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at the rate of ½d. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pays 1d. per word his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be addressed to "The Publisher of the Chemist and Druggist, 42 Cannon Street, E.C.," and the figure must be distinctly endorsed upon the envelope. Letters will then be forwarded to their proper destination. A price is counted as one word, as *e.g.*, £1 10*s.* 6*d.*

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160 *Chemist and Druggist* to date, 10*s.*, or going patents. Corfe, Ryde.

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Surplus Patents.—4 . 6*d.* Rooke's Pills; 4*s.* 6*d.* Holloway's ointment; 2 ditto, 2*s.* 9*d.*; 2 ditto pills, 2*s.* 9*d.*; post 10*s.* 6*d.* 11 Snow Hill, Hanley.

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For sale, 130 well-tried recipes, neatly copied in book, post, 1*s.* 6*d.* Tully, Chemist, Hastings.

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Four exceptionally handsome carved mahogany stands, suitable for specie jars or carboys, for open window; 28 inches high. Milton, Chemist, Reading.

Quite new, nest of drawers by Natali, London, 10 ft. long, 2 ft. deep, glass knobs and bevelled glass labels; also 12 ft. of lockers, 2 ft. deep; price 8*l.* 10*s.* Comely, 9 Mill Street, Kidderminster.

Bent-top plate-glass counter-case, 5 ft. 6 in. long, with upright mirror, plate-glass fronted shelves, and velvet-lined trays, 3*l.* 18*s.*; bent plate-glass tooth-brush case, 1*l.* 5*s.*; mahogany wall-case, 7 ft. 6 in. long, open in front, with 4 mahogany and glass doors, 4*l.* 15*s.*; mahogany-top counter, 6 ft. long, 3*l.* 5*s.*; bent-top plate-glass sponge-case, 2 ft. 6 in. long, 4*l.*; handsome pair of specie-jars, with stands, 1*l.* 15*s.* each; plate-glass dispensing-screen, 6 ft. long, 6*l.* 10*s.* Bygrave, 111 Shepherdess Walk, City Road, London.

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Stokes' Check Till, 33*s.*; carriage paid. 11 Snow Hill, Hanley.

Iron 12-gallon cistern, tinned inside; brass tap, clean sound funnel, test tube, glass, &c. Letters, H., 496 Old Ford Road, London.

Honey.—8 jars, about 25 lbs. each, splendid quality, 6*d.* lb.; 10 7-lb. boxes sulphur tablets, 6*d.* lb.; sample 3 stamps. Johnson, Chemist, Godalming.

WANTED.

Marble mortar, about 12 inches inside diameter. Turpin, Chippenham.

Owen's "Practice of Perfumery"; state lowest price. Wm. Robertson, Box 1,646, San Francisco, California.

Copy of the *Chemist and Druggist*, February 14th, 1885; will give 1*s.* Chew, 25 Crawford Street, W.

Immediately, nest of about 100 drawers, about 4 ft. high. York, c/o H. Robson, Belgrave Place, Huddersfield.

Four or 5 specie jars, with covers and stands, height inclusive, about 33 inches; also a 3-shelf glass stand for window, height 26 in., length 26 in.; must be in good condition. Price to "Spes," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

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Has always in Stock a large assortment of Second-hand and New Drawers, Counters, Dispensing Screens, Glass Wall and Counter Cases, and every requisite for Fitting-up a Shop within 24 hours at prices less than any other house. Inspection invited.

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DR. LANGEN'S
SUGAR OF MILK
GUARANTEED ABSOLUTELY PURE.
In 1-lb. Tins only.

To be obtained of all Wholesale Houses, or of
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For CLEANING PLATE!

BRADLEY & BOURDAS'S
ALBATUM or WHITE ROUGE.
For CLEANING GOLD, SILVER, and PLATED GOODS.

A trial is only needed to prove its superiority over other Plate Powders in use. Chemists will find it to their advantage to recommend this Powder, as when it is once tried it is always continued to be used.
Sold in Boxes at 1*s.* and 2*s.*; Tins, 6*s.*

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It may be Useful

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Have now completed their **EXTENSIVE ALTERATIONS,** New Machinery and the most modern Appliances making their works the most complete of the kind in the Kingdom.

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BOILED SUGARS

Have gained a high reputation everywhere. FOR EXPORT TRADE. They are put up in 1-lb., 2-lb., and 5-lb. Bottles. Packed in Casks or in 1-doz. Cases as required, and delivered F.O.B. at any Port in England. These Sweets are absolutely pure. We specially recommend

Lime Fruit Tablets, Everton Toffy, Mixed Fruit Drops, Cough Drops, Raspberry Drops, Lemon Tablets.

COMPRESSED PELLETS.

ALL KINDS IN ANY QUANTITIES.

CHLORATE OF POTASH PELLETS

IN 1-CWT. ORIGINAL BARRELS. BARRELS FREE.

HIGH-CLASS LOZENGES

OF EVERY DESCRIPTION.

THROAT HOSPITAL LOZENGES, COUGH LOZENGES, VOICE LOZENGES, TOP-NOTE PRODUCERS, &c., &c.

Indents from abroad, marked "GIBSON," may be sent to any Wholesale Drug or Shipping House in the Kingdom. [2]

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Essence of Beef
Essence of Chicken
Essence of Veal
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Beef Tea Jelly
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Meat Juice
Malted Food for Infants
Extract of Malt
"O.K." Bouillon
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417 & 419 KING'S ROAD, CHELSEA, LONDON, S.W.

EIGHT PRIZE MEDALS AWARDED.

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YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6d., 1s., & 2s. each.

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The Best in the World. 1d. Packets; 6d., 1s., 2s., and 5s. Tins.

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One 6d. Tin is equal to 25 Eggs. In 1d. Packets; 6d., 1s., and 5s. Tins.

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Delicious Custards without Eggs. In Boxes, 2d., 6d., & 1s. each.

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Delicious Blancmange in a Few Minutes. Boxes, 6d. and 1s. each.

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Best Tonic yet Introduced. Bottles, 6d., 1s., and 2s. each.

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Makes the Best Ginger-Beer. Packets, 3d. and 6d.

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For Painting Stoves, Grates, Iron, Tin, &c. 6d. & 1s. Bottles.

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Rich and Lasting Perfume. Bottles, 1s., 2s., and 5s. each.

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For Polishing and Cleaning all Metals. Boxes, 6d., 1s., and 2s.

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Make a Delicious and Nutritious Jelly. In ½-pint, 1-pint, and Quart Boxes, 3d., 6d., and 1s. each.

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AND

DRUGGISTS' SUNDRIES.

Monthly Price List of Patent Medicines, Druggists' Sundries, &c., will be sent post free on application to

GOODALL, BACKHOUSE & CO., LEEDS.

40 PRIZE MEDALS. 3 Factories: PARIS, LONDON, STRASBOURG.

COMPAGNIE FRANÇAISE,

Purveyors to H.R.H. the PRINCESS of WALES.

REVIVISCENT CHOCOLATE.

Invented and prepared chiefly for use in cases where Sugar is considered harmful.

WHOLESALE TRADE PRICE, 4s. per lb.

LONDON BRANCH:

BERMONDSEY NEW ROAD, S.E.

THOS. GUEST & CO.

City Works, Carruthers St., MANCHESTER.

MAKERS OF ALL DESCRIPTIONS OF MEDICATED LOZENGES.

B.P., T.H. Ph., and General Proprietary Lozenges. Finest Gum Jujubes and Pastilles—Glycerine and Black Currant, &c. Granular and all other Effervescing Preparations. Boiled Sugars, Floral Tablets (1892).

BEFORE BUYING ANY OF THE ABOVE, PLEASE SEND FOR SAMPLES AND COMPARE.

TELEPHONE NATIONAL 235. TELEGRAMS "GUESTO."

NESTLÉ'S FOOD

An entire Diet for Infants, Children, and Invalids.

"Renders valuable assistance in Wasting Fever."
"Beneficial as a Diet in Severe Cases of Typhoid."
"Invaluable in Cholera Infantum."

Pamphlet containing Extracts from Standard Medical Works in which the above Testimony is given, sent free with Sample Tin on application to H. NESTLÉ, 9 Snow Hill, London, E.C.

The attention of the Medical Profession is also drawn to

NESTLÉ'S SWISS (CONDENSED) MILK.

Which, through its RICHNESS in CREAM and UNIFORMITY of QUALITY, has obtained the Largest Sale in Great Britain. It can be used for all purposes of FRESH MILK.

Samples to Members of the Medical Profession only, sent free on application to H. Nestlé, 9 Snow Hill, London, E.C.

RAIMES & CO.'S "Premier" Ext. Malt.

SIZES & SHAPES.

SAMPLES AND QUOTATIONS ON APPLICATION.

SIZES. & SHAPES

CACHOUS.

For exquisite fragrance the following are unequalled:—

FRAGRANT BOUQUET. HELIOTROPE. PRIMROSES. **OPOPONAX.** RED & WHITE ROSES. VIOLET. ORANGE-BLOSSOMS.

2s. 6d. per lb. Carriage Paid on 14 lbs.

RAIMES & CO., Wholesale Druggists, YORK & EDINBURGH.

Agents—TIDMAN & SON, 21 Wilson Street, Finsbury, LONDON.

BLEASDALE'S

FRAGRANT FLOWER CACHOUS

Are far ahead of anything yet produced in this class of goods.

They are WELL-MADE, BRIGHTLY GOT UP, and cannot be better described than as "Fresh bouquets cut with the May-dew on their lips."

"QUEEN of the MEADOW" CACHOUS

Are a novelty, and their unique fragrance has already secured for them an extensive sale.

LILAC. HELIOTROPE. VIOLET. JASMINE. OPOPONAX. YLANG-YLANG. ROSE. PATCHOULY. BOUQUET. MILLEFLEUR. EAU-DE-COLOGNE. LAVENDER.

2/6 per lb.

YORK.

THE

LADIES' SILVER CACHOUS

(Rose Flavour).

"Impart a Delightful Odour to the Breath."

Put up in the Pretty, Novel, and Convenient 3d. Pocket Bottle.

IT WILL PAY YOU TO STOCK THIS ATTRACTIVE ARTICLE.

ALL PASCALL'S SPECIALITIES May be obtained from ANY WHOLESALE HOUSE.

J. PASCALL, LONDON, S.E.

PETER TYRER'S SAUCES

WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.

SILVER MEDAL.

	Per gross.	Extra quality.
1d. Sample Bottles, dozen parcels	5/3	6/3
" " ½-gross boxes	5/9	6/9
1d. Giant " dozen parcels	6/6	8/6
" " ½-gross boxes	7/-	9/-

	Per gross.	Extra quality.
¼ Bottles, flat or round, reputed half-pints	16/-	26/-
½ " " " pints	26/-	38/-
1 Pint Imperial, round stoppered bottles	52/-	62/-
12½-Gallon Casks (*casks free*) each	20/-	32/-

ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly ½-pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.

MANUFACTORY — 30 SOUTHALL PLACE, LONG LANE, BOROUGH, LONDON, S.E.

CHIEF SCOTCH AGENCY — West Nile Street, GLASGOW.

To H.R.H. The Prince of Wales, The Empress of Germany, &c.

BRAND & CO.'S

PEPTONES

OF

BEEF, MUTTON, VEAL,

AND

CHICKEN.

SOME GENUINE WITHOUT THE

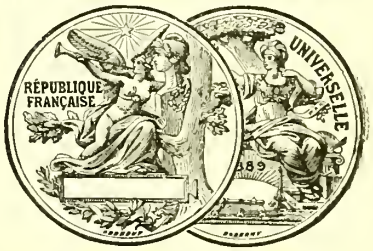
TOWER TEA

REGISTERED TRADE MARK.

HIGHEST AWARD, PARIS, 1889.

Analysis by the "LANCET," December 20th, 1890:—

"We have submitted to examination the Teas of the Great Tower Street Tea Company (Limited). They all yield liquors which are generous to the taste, and of full strength and vigour. The results of our analysis indicate the purity and genuineness of the samples."



PRIZE MEDAL, PARIS, 1889.

Where Vacancies exist, Agencies are appointed by

THE GREAT TOWER STREET TEA CO., LIMITED

5 JEWRY STREET, LONDON, E.C.

STANDARD

BLENDED TEAS.

No. 1	Blend	10d.
1A	"	11d.
2	"	1/-
3	"	1/2
4	"	1/4
5	"	1/7
6	"	1/10

DUTY PAID PRICES.

CARRIAGE PAID on 60 lbs. and upwards for NETT CASH.

SPECIAL

CEYLON SIFTINGS.

MATCHLESS LIQUOR

To Retail at 1/4.

Nett Wholesale Price

1/- per lb.

DUTY PAID AND CARRIAGE PAID.

Handbills, Window Bills, Bags, &c., supplied.

PEARSE & MEEKING, 42 MINCING LANE, LONDON.

SYPHONS & SELTZOGENES

Messrs. J. BARRE JOHNSTONE & CO., 20 Loftus St., Sydney, N.S.W. Agents for New South Wales, Queensland, and New Zealand.

81 ROBERTSON STREET, GLASGOW.

PRICES.

SYPHONS ... 1/6 1/8 and 1/10 each.

SELTZOGENES.

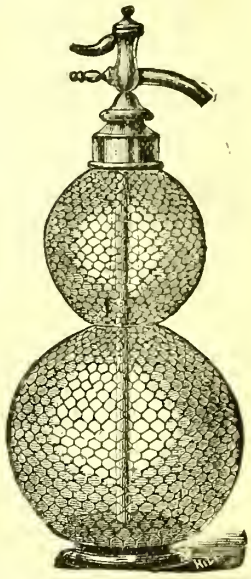
1	2	3	4	5	8 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed.

Messrs. NOYES BROS., 43 Queen Street, Melbourne, Victoria, Agents for Victoria, South and West Australia, and Tasmania.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.



EXCEPTIONAL VALUE.

ORANGE AND QUININE WINE, B.P.

In 26 oz. Bottles, **10/-** per doz.

Prepared with HOWARDS' Sulphate of Quinine.

The Chemist and Druggist says:—"Messrs. Stephen Smith & Co., of Bow, E., are putting on the market an orange-quinine wine in wine-quart bottles. It is made according to the British Pharmacopœia, and they have sent us a sample, which we have examined critically. The orange-wine from which the preparation is made is of a pale-brown colour, good orange odour, and contains 7 per cent. of soluble matter other than quinine. This is mainly sugar. Its alcoholic strength we find to be equal to 25 per cent. proof spirit, or 11·8 per cent. by weight of alcohol, so that it is of the higher standard recognised by the Pharmacopœia. The alkaloidal value of the wine is also satisfactory. Three ounces of it yielded 2·3 grains of ether-soluble alkaloid, equal to 2·7 grains of sulphate of quinine, and allowing for experimental loss and the usual cinchonidine content (not extractable by ether) it will be seen that the wine has obtained not only the pharmacopœial *quantum*, but that it has lost little of it by tannic precipitation."

HIGH CLASS SHERRY, B.P., for Pharmaceutical purposes and Drinking, **6/6** per gall., **16/-** per doz.
EXTRA PALIDO SHERRY, delicate Dry Wine, **7/3** per gall., **18/-** per doz.
ORANGE WINE, GINGER WINE, S.V.R. B.P., S.V.R. for Perfumery.
HALL'S COCA WINE, from all the Wholesale Houses.

SAMPLES OF ANY OF THE ABOVE FREE.

STEPHEN SMITH & CO., BOW, LONDON, E.

IMITATED BUT NOT EQUALLED.

THE FINEST BEVERAGE in the WORLD

FOR EVERY WORKER IN

THE FARM, THE SHOP, THE GARDEN, THE MILL, THE FORGE, THE FACTORY.

Always acceptable at Picnics. In the Home it is the pleasantest and most refreshing drink obtainable.

DELICIOUS!——HEALTH-GIVING!!——INVIGORATING!!!

HANDBILLS, SHOWCARDS, &c., ON RECEIPT OF BUSINESS CARD.

Sole Makers—NEWBALL & MASON, NOTTINGHAM.

AGENTS WANTED.

SEASON 1893.

JEWSBURY & BROWN'S, MANCHESTER,

AERATED WATERS and BEVERAGES. Specially prepared for a first-class Family Trade. Chemists who have not hitherto sold these Waters are solicited to apply for Prices and Terms. Trade Lists, sample Counter Bills, and Analytical Reports will be sent on application. JEWSBURY & BROWN Pay Carriage on Waters and Returned Empties.

NATURAL MINERAL WATERS

Packing Free. **INGRAM & ROYLE** Packing Free.

LONDON—52 Farringdon St., E.C. **LIVERPOOL**—19 South John Street.

VICHY SOLE IMPORTERS OF (STATE SPRINGS) **VICHY**

ÆSCULAP, CARLSBAD, CARLSBAD SALTS, LA-BOURBOULE, ROSBACH, VALS, ETC., ETC.

NAME	Per Dozen		Original Packages			
	Bots.	½ Bots.	Bottles		½ Bottles	
Æsculap	15/-	12/-	25	30/-	50	50/-
Apollinaris	6/3	5/-	50	25/-	100	39/-
Bourboule (La)	11/-	—	50	42/-	—	—
Carlsbad	12/-	—	50	46/-	—	—
Condal	—	14/-	—	—	50	56/-
Contrexeville	9/-	—	50	35/-	—	—
Flitwick	24/-	15/-	—	—	—	—
Franz-Josef	—	12/-	—	—	50	42/-
Friedrichshall	13/-	10/-	25	25/-	50	40/-
Gerolstein	5/-	4/-	50	20/-	50	15/-
Hunyadi-Janos	15/-	13/-	25	30/-	50	50/-
Johannis-Brunnen	6/-	4/6	50	22/-	100	35/-
Kronenquelle	10/-	—	50	40/-	—	—

NAME	Per Dozen		Original Packages			
	Bots.	½ Bots.	Bottles		½ Bottles	
Levico	—	15/-	—	—	—	—
Pullna	12/-	8/-	40	36/-	40	25/-
Reginaris	5/6	4/6	50	21/-	50	17/-
Roisdorf	6/-	—	50	25/-	—	—
Rosbach	6/-	5/-	50	24/-	100	36/-
Royat	9/-	—	50	34/-	—	—
Rubinat	15/-	9/-	25	30/-	50	36/-
St. Galmier	6/-	—	50	22/-	—	—
St. Marco	11/-	6/6	50	42/-	100	52/-
Selters	6/-	4/6	50	24/-	50	17/-
Vals	8/6	—	50	33/-	—	—
Vichy (State Springs) "Celestins," "Grande-Grille," &c.	8/6	7/6	50	33/-	50	29/-

CARRIAGE PAID to any RAILWAY STATION in the UNITED KINGDOM.

DETAILED PRICE LIST AND PAMPHLET ON APPLICATION.

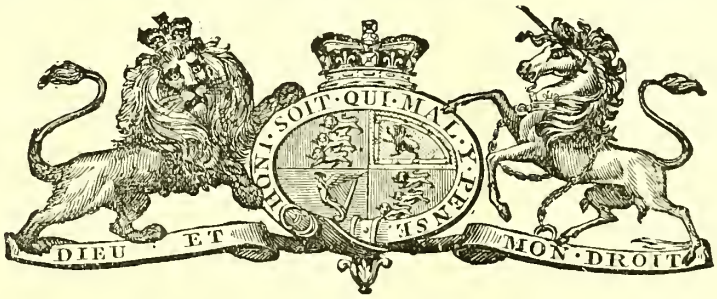
CHEMISTS WILL FIND

IDRIS TABLE WATERS

COMMAND THE **BEST SALE.**

GOLD MEDALS AT JAMAICA, TASMANIAN, & KIMBERLEY EXHIBITIONS.

Purveyors of Table Waters by Royal Warrant



of Appointment to Her Majesty the Queen.

IDRIS TABLE WATERS IN SYPHONS AND BOTTLES.

PURITY. Water filtered by a special process, by which absolute purity is guaranteed. Distilled water used as required. Pure Chemicals only employed. All Goods are regularly subjected to strict analysis.

ELEGANT SYPHONS. Best Block Tin or Silver-plated Tops. Idris & Co. (Limited) make their own Syphons, and can therefore guarantee freedom from deleterious metal.

LOWEST PRICES for Water, both in Syphons and Bottles. Write for Price List.

PROMPT DELIVERY by our Vans in London and Suburbs. Customers called on regularly once or twice a week. Country orders despatched same day as received.

IDRIS & CO. (Limited) now supply a larger number of the London Hospitals, Public Institutions, and Chemists, than any other Manufacturers, which is in itself a sufficient guarantee of the excellence and purity of the Waters supplied by them.

IDRIS & COMPANY,

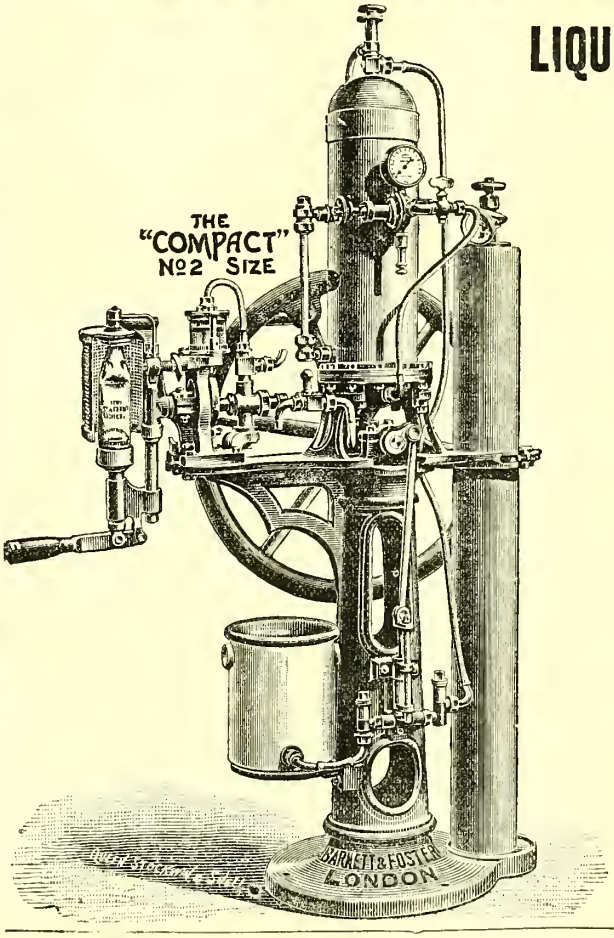
Limited,

CAMDEN TOWN, LONDON, N.W.

SODA WATER MAKING

WITH

LIQUEFIED CARBONIC ACID GAS.



From Mr. A. Thompson, M.P.S., 98 High Street, Putney, S.W.

June 11, 1891.

I am more than satisfied with the "Compact" Machine, which answers my utmost requirements. I have nearly trebled my sale this last three weeks.

I find the waters produced by this Machine far better than I have been able to obtain from any one, being much more saturated with the gas, and the Syphons emptying themselves straight off, without shaking.

From Mr. C. F. Wyatt, Chemist, Rochester.

December 16, 1892.

Replying to your inquiry as to "Compact" Soda Water Machine I can only say that I am satisfied with it and the work it does in every possible way. The aëration of the water is perfect, and my customers are now highly pleased with the quality of the goods.

I would also add that beyond the renewal of a few washers, no repairs of any kind have been required since I had it, some fifteen months since.

THE

No. 2 "COMPACT" Machine

(AS SHOWN).

Producing capacity, by hand, 35 dozen per hour.

PRICE £48.

Or, if fitted for steam, 70 dozen per hour (with an extra filling machine).

NOTE.—Any kind of filling machine can be attached to the "Compact" Machines, EITHER for Syphons, Internal Stoppered, Cork, or Screw Bottles.

Iron Vessel containing an average of 28 lbs. by weight of Liquefied Gas } 10s. each.

And has sufficient Gas to manufacture about 18 gross of highly-charged Soda Water (10-oz. Bottles), or double this quantity of splits.

These Machines occupy little space, and are ready for use immediately! They require no fixing! Are self-contained and produce soda water, lemonade, &c., of the highest class and greatest purity, at a minimum of cost.

THE

'LONDON-MADE' SYPHON

(Title Registered).

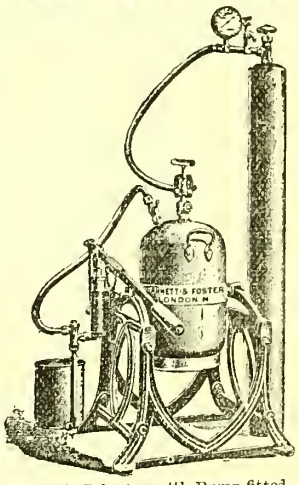
It is the Cheapest, Strongest, Handsomest, and Best in the World.

Pure Block Tin Tops.

PRICE 1/6 EACH.

Nickel-plating Tops from 3*d.* each. Silver-plating Tops from 4½*d.* each. Marking on Tops Free for orders of 250. Marking on Vases Free for orders of 1,000.

THE PORTABLE CYLINDER



Portatable Cylinder with Pump fitted to Rocker.

As here shown, is charged with plain filtered water while on the Rocker; the gas from the vessel is then slowly turned on, and the copper cylinder rocked backwards and forwards sharply so as to agitate or mix the water and gas together. When charged to the required pressure (about 110 lbs., shown by the pressure-gauge), it can be removed and attached to the Counter Fountain, or for a filling machine if desired.

Prices.

	£	s.	d.
Six-gallon Tinned Copper Cylinder	5	10	0
Cast-iron Rocker ..	1	2	6
Flexible Pipe, Pressure-gauge, Safety-valve, & Connections	3	3	0
If fitted with Pump for pumping the water into the cylinder (and so avoiding waste of gas) extra	5	5	0

Prices of larger Cylinders upon application.

ILLUSTRATED CATALOGUE FORWARDED FREE UPON APPLICATION TO

BARNETT & FOSTER, "Niagara Works," 26T Eagle Wharf Road, **LONDON, N.**

MEADOWCROFTS'

CONCENTRATED SOLUBLE FRUIT

ESSENCES

ARE NOTED

For the Excellent Flavour and Aroma they impart to the beverages prepared with them.

SPECIALITIES.

Sol. Ess. Lemon, double the usual strength.
" " Ginger Ale, double the usual strength.
" " Jamaica Ginger, of great strength.
" " Orange, of great strength.
" " Hop Ale, double strength.
Foamine, double strength.

STEAM FILLER

We are the makers of what is undoubtedly the very best Steam Filler for Codd's bottles, and it is in constant use by many of the best makers in the country. It is fitted with a perfect Syrup and Water Saving Motion, and we guarantee it to fill perfectly 80 to 100 dozen large bottles per hour with one lad only.

Price £26 net cash, or with Improved Syrup Indicator, 30s. extra.

OVER 150 OF THESE MACHINES ARE IN ACTUAL WORK.

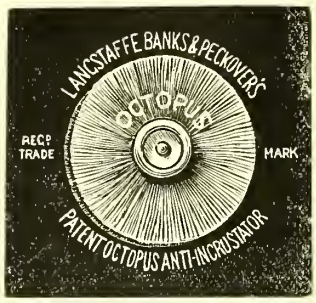
W. MEADOWCROFT & SON, LIMITED,

FRUIT ESSENCE MANUFACTURERS AND AERATED WATER ENGINEERS,

REGENT STREET, BLACKBURN, LANCS.

Also at 50 Robertson Street, Glasgow.

"OCTOPUS"



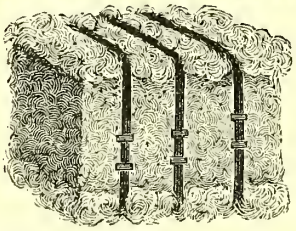
Collects the "FUR" in Kettles, Kitchen Boilers, and Boiler Pipes.

RETAIL PRICES.

Kettle Size	1/8 each.
Small Kitchen Boiler Size ..	3 9 „
Medium	5/- „

Handsome Circulars for distribution free and carriage paid.

WOOD WOOL.

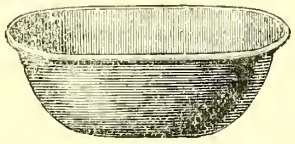


This is used extensively for packing purposes in place of Straw, &c.

We use it largely and can recommend it.

In Bales of 1 cwt., 7/- per cwt.

"UNBREAKABLE" OVAL TUBS



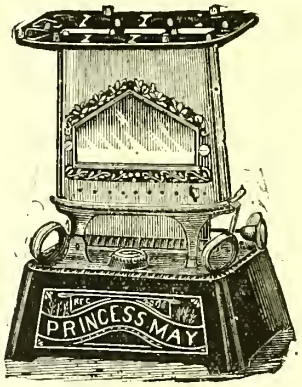
☞ **Special—For 5/- net**

We will send (carriage paid) direct from Works, 1 Oval Tub, a 13-inch and 11-inch Basin, 1 Spittoon, and 1 Sponge Dish.

We publish an Illustrated Price List, containing a number of useful articles in this Ware. We are constantly applying our PATENT PULP to new uses; articles made in it have no hoops to rust or fall off.

The Latest and Best.

THE "PRINCESS MAY" OIL STOVE.



This is a new pattern and thoroughly reliable Oil Stove. The combustion and illuminating qualities are of the first order.

With Wick complete. Each 2/10. Per dozen, 33/-

Special price for large quantities.

100-Bar Cases	25/-
60 „	15/-
48 Half-Bars	6/3

If any difficulty in obtaining in any part of the world, Write Sole London Consignees—

"FORDHAM, LONDON."

BRILLIANT BELGE.

TRADE MARK

B B

REGISTERED.

MADE NEAR PARIS.

LIQUID METAL POLISH.

Stone Bottles, Retailed, 6d., 1/-, & 1/6 each.

The BRILLIANT BELGE contains no acid, it is composed of vegetable substances, which give it the great advantage of not injuring the hands of the person who uses it. It can be safely used to clean metals inlaid on wood or mother-of-pearl.

ALL MERCHANTS WILL SUPPLY.

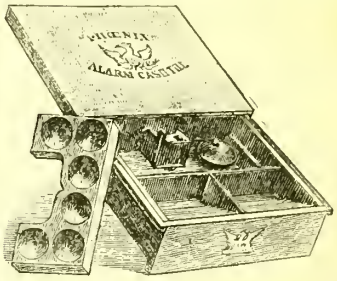
"Sanitary" Sink Baskets.

Stands in corner of Sink over Waste Pipe, and retains all solid matter from water thrown into it. Ensures Clean Waste Pipe. No Smells. Sink-flooding Prevented. Enamelled White.

12/- per dozen.

"SUN" KNIFE CLEANER.

THE "PHŒNIX" CASH TILL.



A Perfect Day Safe, and certain Preventive against petty thefts.

The specie drawer is turned in a solid block. It has six solid bowls, one each for sovereigns, half-sovereigns, half-crowns, florins, shillings, and sixpences, and two large spaces for coppers. Below the cash receptacle is a compartment for notes, stamps, &c., &c. The whole as a piece of cabinet-work is perfect, and without its special advantages well worth its cost. Fixed by four screws by any person.

Write for full particulars.

Price 10/- each.

W. B. FORDHAM & SONS, LIMITED, 36 to 40 YORK ROAD, KING'S CROSS, LONDON, N.

Telephone Number, 1852. Telegraphic Address—CHEMICUS LONDON.

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Ferris & Co.	50
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Foulkes & Co.	70
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Glendenning, W.	Text 338
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Hill, A. S., & Sons	46
Hirst, Brooke & Hirst (Lim.)	16
Holroyd, J., & Co. (Lim.)	68
Hooper, B., & Co.	15
Hopf & Co.	69
Hopgood & Co.	10
Hubbuck & Son	60
Idris & Co. (Lim.)	27
Ingram & Royle	23
Isaacs & Co.	64
Jackson, T.	12
Jamieson, W. & J.	14
Jewsbury & Brown	26
Jeyes' Sanitary Compounds Co. (Lim.)	59
Josephs, P.	18
Kay Bros. (Lim.)	50
Keating, T.	4
Keene & Ashwell	72
Kent, G. B., & Sons	10
Kuhn, B.	45
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Leo & Co.	57
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Liverpool Patent Lint Co.	62
Lloyd, T. Howard, & Co.	43
Lofthouse & Saltmer	50
London Homœopathic Hospital and Medical School	65
Mackey, Mackey & Co.	56
Manchester College	8
Mason, C. E., & Co.	63
Mason, G., & Co. (Lim.)	20
May & Baker (Lim.)	Cover
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Phillips, G., & Co.	16
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Sutton O. & Co.	12
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Wilson, A.	10
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Wright, Layman & Umney	Text 338
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CLASSIFIED LIST OF ALL ADVERTISERS

Whose Announcements appear in "THE CHEMIST AND DRUGGIST." Those whose Names do not appear in the preceding Index are published in one of the other issues of this month.

ACETIC ACID
Fuerst Bros.
Lorenz, H.
Morris & Callard (Salts)

ACIDS
Boulton, J., & Co., Lim.
Typke & King

ADVERTISING SPECIALITIES
Hildesheimer, A.
Lawton, J. W. | Sears, F. W.

AERTD & MINRLS
Apollinaris Co.
Barnett & Foster
Burroughs, Welloome & Co.
Burrow's Malvern Waters
Cantrell & Coohrane
Chemists' Aërated Waters Association, Lim.
Ellis & Son (Ruthin)
Franz, Josef
Idris & Co., Lim.
Ingram & Royle
Jewshury & Brown
Johannis Co.
Kinmond & Co.
Levioo Water
Mills & Co. (Bourne)
Roshaoh Water Co.

DITTO PLANT
(See SYPHONS and ESSENCES.)
Barnett & Foster
Brathy & Hinchliffe, Lim.
Evans, Sons & Co.
Gueret Frères
Meadowcroft & Son
Rylands, Dan, Lim.
Tyler, Hayward, & Co.

ALKALOIDS
Howards & Sons (Cinchona)
Smith, T. & H., & Co.

AGNCIES ABROAD
Australian Drug Co.
Kempthorne, Prosser & Co.
Lennon, B. G., & Co. [(N.Z.)
Peake, Allen & Co.
Prosser, Taylor & Co.
Soul. W. H., & Co.

AMMONIA
May & Baker, Lim.
White, A., & Sons
Woolley, Sons & Co.

APPARATUS
Bennett, Sons & Shears
Berend, O., & Co.
Christy, T., & Co.
Forrest, H. P.
Hicks, J. J. | Ohlson, A.
Orme, J., & Co. (Scientific)
Perken, Son & Rayment
Poths, H., & Co.

BAKING POWDER
Goodall, Backhouse & Co.

BANDAGES
Bailey, W. H., & Son
Robinson & Sons
Schutze, F., & Co.

BATH & FLESH GLOVES
Barclay & Sons, Lim.
Chemists' Association, Lim.
Maw, S., Son & Thompson
Pattison, G. | Solport Bros.

BICARB. SODA
Brunner, Mond & Co., Lim.
Howards & Sons
May & Baker, Lim.

BISMUTH PREP.
Hearon, Squire & Francis
Hewlett & Sons
Howards & Sons
May & Baker, Lim.
Symes & Co. | Tyrer, T., & Co.
White, Alfred, & Sons

BOOKS
Hargreaves, Dr., M.D
Lewis, H. K.

BORAX
Howards & Sons
Mack's Starch

BOTTLES
Aire & Calder Bottle Co., Lim.
Barnett & Foster
Barrett, R. H.
Brathy & Hinchliffe, Lim.
Evans, Sons & Co.
Gilhertson, H., & Sons
Hearn, Wright & Co.
Isaaos & Co.
Johnsen & Jörgensen
Kilner Bros.
Maw, S., Son & Thompson
Poths, H., & Co.
Rylands, Dan, Lim.
Toogood, W.
"W" Brand Bottles
Youldon, E.

BOXES
Austin & Co. (Cardhoard)
Ayrton & Saunders
Crowden & Garrod
Evans, Sons & Co.
Kent, G. B., & Sons
Kilner Bros. | Maxime & Co.
Robinson & Sons
Rylands, Dan, Lim.

BRUSHES
Crowden & Garrod
Evans, Sons & Co.
Kent, G. B., & Sons

BUNSEN BURNRS
Berend & Co.

BUTTER COLR, &c.
Boulton, J., & Co., Lim.
Crawshaw & Co.
Hatrick & Co., Lim.
Tomlinson & Hayward

CACHOUS
Bleasdale & Co.
Blyton, Astley & Co.
Jackson Thos. | Pascall, J.
Raimes & Co. | Warrick Bros.

CAMPHOR
Fuerst Bros. | Howards & Sons
May & Baker, Lim.

CAPSULES
Denoual, J. (Medicinal)
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hatrick & Co., Lim.
Holroyd J., & Co., Lim (Moulds)
Hooper, B., & Co.
Lofthouse & Saltmer
Richardson, John, & Co. (Leicester), Lim.
Warrick Bros

CARBOLIC ACID
Calvert, F. C., & Co.
Mason, C. E., & Co.

CSCRA SAGRADA
Anderson & Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Ferris & Co. | Moss, J., & Co.

CASTOR OIL
Allen & Hanburys
Christy & Co. (Aromatioum)
Fuerst Bros.

CATALOGUES & PRICE LISTS
Burroughs, Wellcome & Co.
Gibson, R., & Sons
Lorimer & Co.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Sanker & Sons

CERESINE WAX
Boehm, Fredk.

CHECK TILLS
National Cash Till Co.
Patent Voucher Check Till Co., Lim.
Stokes, G. R., & Co., Lim.

CHEMICALS
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Bramwell, E., & Son
Brunner, Mond & Co., Lim.
Fletcher, Fletcher & Stevenson
Fuerst Bros.
Goodall, Backhouse & Co.
Hill, A. S., & Son [Clarke
Hodgkinsons, Treacher & Howards & Sons (Pharm.)
Levermore, Aug., & Co.
Lofthouse & Saltmer
Lorenz, H.
May & Baker, Lim.
Morris & Callard | Moss & Co.
Smith, T. & H., & Co.
Typke & King | Tyrer, T., & Co.
Washington Chemical Co.
White, A., & Sons
Zimmermann, A. & M.

CHEST PROTCTRS
Chemists' Association, Lim.
Hockin, Wilson & Co.
Liverpool Patent Lint Co.
Newbery, F., & Sons
Pattison, G. | Solport Bros.

CHLOR. OF LIME
Government Sanitary Co.
National Chemical Co.

CHLOROFORM, &c.
Arthur & Co.
Duncan, Flockhart & Co.
Macfarlan, J. F., & Son
Smith, T. & H., & Co.
Wright, Layman & Umney
Zimmermann, A. & M.

CHLORODYNE
Blyton, Astley & Co.
Davenport (Browne's)
Towle, A. P., & Son

COCA & CHOCOLTE
Cadbury Bros. | Christy & Co.
Compagnie Française
Rowntree & Co.

COCA WINE
Armbrecht, Nelson & Co.
French Hygienic Soc.
Stephen Smith & Co. (Hall's)

COCAINE-HYDRO.
Howards & Sons

COD-LIVER OIL
Allen & Hanburys
Bleasdale & Co.
Burroughs, Welloome & Co.
Evans, Sons & Co.
Hill, A. S., & Son
Hockin, Wilson & Co.
Robinson & Co.
Smith, T. & H., & Co.
Woolley, Sons & Co.

COFFEE
Symington, T., & Co. (Coffee Essence)
White, Fairchild & Co.

COLAPSBL TUBES
Betts & Co.

COMP. MEDICINS
Allen & Hanburys
Blyton, Astley & Co.
Burroughs, Wellcome & Co.
Fuerst Bros.
Hooper, B., & Co. | Leo & Co.
Lloyd, T. Howard & Co.

CONCENT. LIQRS.
Fletcher, Fletcher&Stevenson
Lloyd, T. Howard & Co.

CORN CURES
Chong, D. | Pattison, G.
Solport Bros.

COTTON WOOL
Haynes, G., & Co. (Absorbent)
Robinson & Sons (Absorbent)
Sanger, J., & Sons

CRSHD LINSEED
Mumford, S. G.

DENTIFRICES
Bailey's Toilet Co.
Beecham, T.
Bronnley, H., & Co.
Dorothy Dentifrice Co.
Hanson, O.
Jamieson, W. & J.
Jewsbury & Brown
Lakeman, J. J.
Quelch, H. C.
Ricksecker, Uno
Robertshaw & Co.
Stevens, P. A.
Sutton, O., & Co.
Thompson & Capper
Warrick Bros. | Wilson, A.
Woods, W. (Areca Nut)

DISINFECTANTS
Blyton, Astley & Co.
Brooks, T.
Calvert, F. C., & Co.
Drysdale, J. W., & Co.
Dussek Bros. & Co.
Fletcher Bros. & Co.
Hebden, W. O.
Government Sanitary Co.
Grindley & Co., Lim.
Izal
Jeyes' Sanitary Componnde Co.
Mackey, Mackey & Co.
Mason, C. E., & Co.
May & Baker, Lim.
National Chemical Co.
Sanitae Co., Lim.
Seabury & Johnson
Tyrer, T., & Co.

DOG MEDICINES
Heald, A. J.
Spratt's Patent, Lim.

DRUGS
Hopf, R.

DRUGGISTS' SUN.
Ayrton & Saunders
Bailey, M., & Co.
Barclay & Sons, Lim.
Bush, H. W., & Co.
Chemiste' Association, Lim.
Chemists' Mineral Water Association, Lim.
Crowden & Garrod
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Fordham, W. B., & Sons, Lim.
Foulkes & Co.
Gilbertson, H., & Sons
Hockin, Wilson & Co.
Idris & Co., Lim.
Jackson, T.
Kay Bros., Lim.
Lindner, M.
Lynch & Co.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sone
Quelch, H. C.
Sanger & Sons
Schutze & Co.
Tidman & Son | Toogood, W.
Tyer Rubber Co.
Wood, Vincent | Young, J.

DRYSALTERIES
Browning, J. H., & Co.
Burton, W., & Sons

DYES, &c.
Ayrton & Saunders
Burton, W., & Sone
Crawshaw & Co.
Hatrick & Co., Lim.

EAU DE COLOGNE
Farina, J. M.
Hockin, Wilson & Co. (Farina)
Martin, Marla (Nun)
Moenich, Oscar, & Co.
Mulhens, F.

ELECTRICAPPAR.
Darton, F., & Co.
Gent & Co. | Orme & Co.

EMBROCATION
Day & Sons

ENEMAS
Barclays, Lim.
Evans, Sons & Co.
Sanger & Son

ENGRAVERS
Corsan, J. R.

ESSENCES
Boehm, Fredk.
Boulton, J., & Co. (Lim.)
Bratby & Hinchliffe, Lim.
Burgoyne, Burbidgee & Co.
Bush, W. J., & Co.
Fletcher, Fletcher&Stevenson
Goodall, Backhouse & Co.
Idris & Co., Lim.
May & Baker, Lim.
Meadowcroft & Son
Newball & Mason
Rylands, Dan, Lim.
Stevenson & Howell
Tyrer, P. (Anchovies)
Tyrer, T., & Co.
Woolley, Sons & Co.

ESSENTIAL OILS
Allen, Stafford, & Sons
Barrett, A. A.
Boehm, Fredk.
Brummerstaedt & Lüders
Bush, W. J., & Co.
Clay, Dod & Co.
Cocking & Co. (Japan Pepper-mint)
Dodge & Olcott
Evans, Sons & Co.
Hodgkinsons, Treacher & Clarke
May & Baker, Lim.
Meadowcroft & Sons
Rylands, Dan, Lim.
Sozio & Andrioli
Stevenson & Howell
Symes & Co.
Treatt, R. C.
Vogt, G., & Co.
Warrick Bros.
Witrofsky, E.
Wright, Layman & Umney

ETHER
Duncan, Flockhart & Co.
Howards & Sons
May & Baker, Lim.
Robbins, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

EUCALYPTUS
Bickfords | Bosisto's
Drysdale, J. W., & Co.
Evans, Lescher & Webb
Fletcher, Fletcher&Stevenson
Grimwade, Ridley & Co.
Laughland, Mackay & Baker
Mackay, Mackay & Co.
Murdoch, J., & Co.
Tasmanian Eucalyptus Oil Co.
Vogt, G., & Co.
Woods & Co.

EXALGINE
Kühn, B.

EXTRACT MEAT
Bovril
Brand & Co.
Bush's Liquid Beef
Idris & Co. (Viking Co.)
Liebig Co.
Mason, G., & Co., Lim.
Wyeth, J., & Brother

EXTRCTS, FLUID
Allen & Hanburys
Burgoyns, Burbidges & Co.
Evans, Sons & Co.
Fletcher, Fletcher&Stevenson
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd T., Howard, & Co.
Moss & Co.
Potter & Clarke
Vogt, G., & Co.
Wright, Layman & Umney

FEEDG BOTTLES
Burroughs, Wellcome & Co. (Thermo Safe)
Chemists' Association, Lim.
Evans, Sons & Co.
Hearn, Wright & Co.
Hockin, Wilson & Co.
Kilner Bros. | Lynch & Co.
Marriott, E., & Co.
May, Roberts & Co.
Maw, S., Son & Thompson
Spence & Co.
Surrey Packing Co.

FILTERS
Berkefeld Filter Co.
Fordham, W. B., & Sone, Lim.
Mawson Filter Co.
Silicated Carbon Filter Co.

FLY PAPERS
Ford, Sbapland & Co.
Strong, Christy
Tunbridge & Wright

FOOD (Infants' & Invalid'e
Allen & Hanburys
Benger's Food
Bovril
Brand & Co.
Chibnall, H. B.
Evans, Sons & Co.
Frame Food Co., Lim.
Goodall, Backhouse & Co.
Hearon, Squire & Francis
Liebig Co.
Lorimer & Co.
Mason, G., & Co. Lim.
Nestlé, H.
Ridge, Dr.
Tyrer, P.
Viking Food Co.
Wyeth, J., & Bro.

FORMULA
Brooks, T.

GINGER ALE
Mills, R. M., & Co.

GLYCERINE
Blyton, Astley & Co. (Pastilles)
Boehm, F. | Fink & Co.
Fuerst Bros.
Greeff, R. W., & Co.
Price's Candle Co., Lim.
Watson & Sons

GOUT & RHEUMATIC PILLS
Bromley, C.
Eade, Geo.
Prout & Harsant (Blair's)

GRANULAR PREP.
Bishop, A., & Sons
Blyton, Astley & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Wright, Layman & Umney

GUM
Fink & Co. (Arabic, &c.)
Levermore, Aug., & Co.

HAIR PREP.
Anglo-American Drug Co., Lim.
Chesebrough Co.
Edwards & Co.
Ricksecker, Uno
Truefitt, H. P., Lim.

HERB BEER EXTS
Newball & Mason
Potter & Clarke

HOMŒOPATHIC
Epps & Co.
Keene & Ashwell
Leath & Ross
Thompson & Capper
Watson & Wates

HYPOPHOSPHITES
Duncan Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Symes & Co.
Tyrer, T., & Co.

INDIARUB. GOODS
Tyer Rubber Co.

INHALERS
Burroughs, Wellcome & Co.
Hockin, Wilson & Co.
Krohne & Sesemann
Spirone, Co., The
Toogood, W.

INK [See MARKING INKS]
Bewley & Draper

INSECTICIDES
Rocke, Tompsitt & Co.
Steiner & Co.

INSURANCE
London and Lancashire Fire Insurance Co.

JARS
Rylands, Dan, Lim.

KETCHUP
Tyrer, P.

KOLA PREPRTN
Cbristy, T., & Co.

LARD
Ewen, J., & Sons

LIME JUICE
Evans, Sons & Co.
Lorimer & Co.

LINT
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons

LIQUORICE
Dennis Di Lugo & Co.

LITHIA
Fuerst Bros.

LOZENGES
Allen & Hanburys
Blyton, Astley & Co.
Davidson & Gray
Gibson, R., & Sons (Manfrs.)
Hill & Son
Jackson, T.
Lorimer & Co.
Pascall, J.
Raimes & Co. | Warrick Bros.

MACHINERY
Bennett, Sons & Shears
Burroughs, Wellcome & Co.
Gardner, W.
Ohlson, A.
Pindar, J. W.
Strutners & Craig (Sifting)
Werner & Pfleiderer (Kneading and Sifting)

MAGNESIA
Bush, W., Son & Co.
Duncan, Fuller & Co.
Evans, Sons & Co.
Henry, T. & W. (Calcined)
Hill, A. S., & Sons
Washington Chemical Co.

MALT EXTRCT, &c.
Allen & Hanburys
Anderson & Co.
Burroughs, Wellcoms & Co. (Kepler's)
Glendenning, W.
Hearon, Squire & Francis
Lorimer & Co.
Moss, J., & Co.
Raimes & Co.
Richardson, John, & Co. (Leicester), Lim.
Robinson & Co.

MARKING INKS
Bond, John (Crystal Palace) (Ink and Pencils)

MEDICINE CHSTS
Burroughs, Wellcome & Co.
Day, Son& Hewitt (Veterinary)
Day & Sons (Veterinary)

MENTHOL
Burroughs, Wellcome & Co.
Christy, T., & Co.
Cocking & Co.
Duncan, Fuller & Co.
Evans, Sons & Co.
Hockin, Wilson & Co.
Tyrer, P. | Vint, T. D.

MERCURIALS
Fuerst Bros.
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.

METH. SPIRTS, &c.
Boord & Son | Burrough, J.
Jones & Co.
Phillips, G., & Co.
Smith, S., & Co.

METHYLENE
Robbius, J., & Co.

MICROSCOPES
Darton, F., & Co.
Perken, Son & Rayment

MILK
Nestlé, H. (Condensed)

MORPHIA
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

OILS, PAINTS, &c.
Browning, J. H., & Co.
Fox, W., & Sons
Pinchin, Johnson & Co.

OINTMNT BASES
Burgess, E.
Burgess, E., jun.
Burroughs, Wellcome & Co. (Lanoline)
Chesebrough Co. (Vaseline)
Christy, T., & Co.
Lanoline
Lloyd, T. Howard, & Co.
Richardson, J., & Co. (Leicester), Lim. (Anaspaline)

OPIUM
Hopf, R.

OPTICIANS
Botwright & Grey
Darton, F., & Co.
Perken, Son & Rayment

OTTO OF ROSE
Fuerst Bros.
Witrofsky, J. R.

OXIDE OF ZINC
Hubbuck, T., & Son, Lim.

PAPAIN
Kühn, B. (Dr. Finkler)

PAT. MEDCNS, &c.
Anglo-Amer. Drug Co., Lim.
Atkinson & Barker (Infant Preserv.)
Barclay & Sons, Lim.
Beecham, T. (Pills)
Bow's, Dr., Liniment
Bromley, C. (Gout and Rheu.)
Chemists' Association, Lim.
Clarke's Blood Mixture
Congreve, G. F.
Edwards & Son
Evans, Lescher & Webb
Fassett & Johnson
Fenning (Powders)
Goodall, Backhouse & Co.
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
May, Roberts & Co.
Newbery, F., & Sons
Popular Remedies Mfg. Co.
Roberts & Co. (Foreign)
Rooke, Dr., Lim.
Southall Bros. & Barclay
Sutton, W., & Co.
Wilson, A. (Bunter'e Nervine)

PEPSIN, &c.
Armour & Co.
Burroughs, Wellcome & Co.
Chassaing & Co.
Fletcher, Fletcher&Steveneon
Kühn, B.
Lorimer & Co.
Newbery, F., & Sons (Ingluvin)
Stern, G. & G.
Warner & Co. (Ingluvin)

PEPPERMINT OIL
Bush, W. J., & Co.
Cocking & Co.
Stevenson & Howell

PERFUMERY, FANCY SOAPS
Barclay & Sons, Lim.
Bleasdale & Co.
Blondeau & Cie. | Boehm, F.
Blyton, Astley & Co.
Brooks, T. (Solid Perfums)
Brummerstaedt & Lüders
Burroughs, Wellcome & Co.
Bush, W., & Co.
Chemists' Association, Lim.
Chesebrough Co.
Crown Perfumery Co.
Evans, Sons & Co.
Ewen, J., & Sons
Farina, J. M.
Hovenden & Sons
Lanoline
Mulhens, F.
Newbery, F., & Sons (Bardoss
Pears', A & F., Lim.
Price's Patent Candle Co.
Ricksecker, Theo
Sandold & Co.
Sozio & Andrioli
Tidman & Son | Treatt, R. C.
Truefitt, H. P., Lim.
Warrick Brothers
West, T. (Okell's Mona)
Woolley, Sons & Co. (Powder)
Wright, Layman & Umney

PEROX. OF HYDR.
Burton, W., & Sons
May & Baker, Lim.
Robbins & Co.

PETROLEUM
Allen & Hanburys
Barclay & Sons, Lim.
Dee Oil Co., Lim.
Fuerst Bros. (Jelly)

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Armour & Co.
Arthur & Co.
Baiss Bros.
Barron, Harveys & Co.
Bieber, J. D. | Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Brady & Martin
Bryce & Rumpff
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Chassaing & Co.
Duncan, Flockhart & Co.
Ferris & Co.
Fletcher, Fletcher & Co.
Giles, Schacht & Co.
Hearon, Squire & Francis
Hewlett & Son
Howards & Sons
Jeyes' Sanitary Compounds Co.
Lambert Pharmacal Co.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co.
Potter & Clark
Richardson, John, & Co. (Lei-
Roberts & Co. [coester), Lim.
Smith, T. & H., & Co.
Southall Bros. & Barclay
Sutton, W., & Co.
Symes & Co.
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White, Alfred, & Sons
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Zimmermann, A. & M.

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Boehm, Fredk.
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Darton, F., & Co.
Fuerst Bros.
Howards & Sons (Chemicals)
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Orme, J., & Co.
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Ross & Co.
Tyrer, T., & Co.
White, Alfred, & Sons
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Toogood, W. (Coater)
Werner & Pfleiderer

PILLS (Coated, &c.)
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Anderston Apothecaries' Hall
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Blyton, Astley & Co.
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Burgess, E. | Burgess, E., jun.
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Davidson & Gray
Deacon, H. J.
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Duncan, Flockhart & Co.
Eade's Gout Pills
Evans, Sons & Co.
Harroline Pill Co.
Hearon, Squire & Francis
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McKesson & Robbins
Newbery, F., & Sons
Potter & Sacker
Richardson, J., & Co., Lim.
Wand, S (Pearl Coated)
Warner, W. R., & Co. (Coated)
Wyeth, J., & Bro.

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Evans, Sons & Co.
Johnson & Johnson
Seabury & Johneon
PODOPHYLLIN, &c.
Smith, T.
POLISHING
Bradley & Bourdas (Albatum)
Chancellor & Co.
Fordham, W. B., & Sons, Lim.
Oakey, John, & Sons
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Toogood (E.o. Pots, regist.)
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Maw, S., Son & Thompson
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Poths, H., & Co.
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Fletcher, Fletcher & Stevenson
Gibson, R., & Sons
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Boehm, Fredk.
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Marriott, E., & Co.
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Hodgkinsons, Treacher &
Lloyd, T. Howard, & Co.
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Suitable for Retail Sale, in Screw-capped Pill Tubes. Not liable to Stamp Duty unless specially recommended or sold as "Proprietary."

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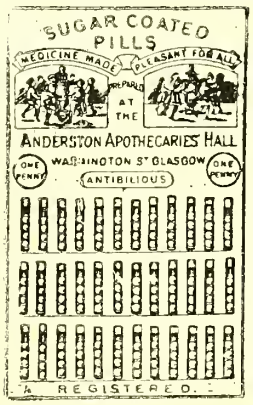
1D. PILLS!! SUGAR-COATED!! 1D. PILLS!!



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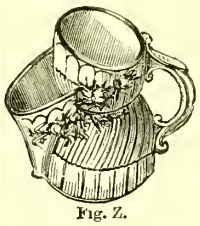
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Sole Proprietors and Manufacturers of J. Brooks & Co.'s celebrated Specialities:—Winter Cream, Lip Salve, Solidified Camphor Cream, Glycerine Jelly, Perfumery, &c., &c.

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Reputed Pints, per doz.	4/6	4/-	4/6
" Quarts "	7/3	6/3	7/3
Per Gallon	2/-	1/8	2/-

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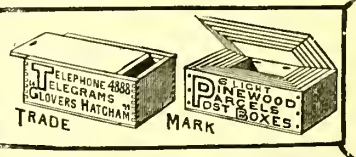

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CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation—Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

THE TONICS—Quinine and Strychnine;

AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syrup with a **SLIGHTLY ALKALINE REACTION.**

IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses the important properties of being pleasant to the taste, easily borne by the stomach, and harmless under prolonged use.

IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosis, Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.

ITS CURATIVE POWER is largely attributable to its stimulant, tonic, and nutritive properties, by means of which the energy of the system is recruited.

ITS ACTION IS PROMPT; it stimulates the appetite and the digestion it promotes assimilation, and it enters directly into the circulation with the food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; *hence the preparation is of great value in the treatment of mental and nervous affections.* From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, FINDS THAT NO TWO OF THEM ARE IDENTICAL, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-): the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

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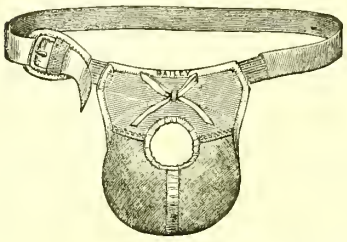
A GREAT SUCCESS!!

BAILEY'S SUSPENSORY BANDAGES.

A. B. C. SYSTEM.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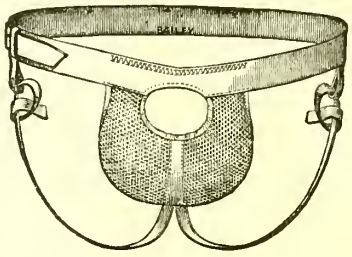
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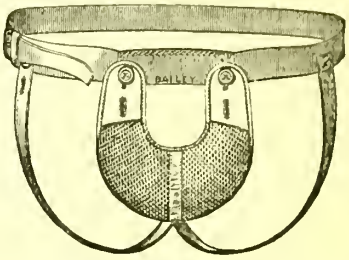


Fig. 3.

Cabinet of 2 dozen assorted, **30/-** USUAL DISCOUNT.

TESTIMONIAL. *The Foregate, WORCESTER.*

GENTLEMEN,—Please repeat our last order for "Suspensory Bandages." We think your idea of arranging the sizes and qualities by the use of numbers and letters a very excellent one, as it is most convenient to the Chemist in ordering, and we find our customers make use of your method. It brings us many repeat orders.

Yours faithfully, ANDERSON & VIRGO.

W. H. BAILEY & SON, 38 OXFORD ST., LONDON, W.

TELEGRAPHIC ADDRESS—"BAYLEAF LONDON."

THE INHALANT

"SPIRONE"

TRADE MARK.

FOR THE TREATMENT AND CURE OF ALL

DISEASES OF THE LUNGS, WINDPIPE, NOSE & THROAT.

CLAIMS TO BE A

Specific for all Congestive and Inflammatory Conditions of the Respiratory Apparatus,

And will be found efficacious in

INFLUENZA, COUGHS AND COLDS, ASTHMA, BRONCHITIS,

Inflammation and Congestion of the Lungs, Pneumonia, Pleurisy, Whooping Cough, Croup, Diphtheria, Pharyngitis, Laryngitis, Catarrh, Sore Throat, Quinsy, Enlarged Tonsils, Hoarseness, Loss of Voice, Colds in the Head, Hay Fever, and all other Complaints of the Respiratory Organs.

None Genuine except such as bear the above Trade Mark "SPIRONE" and the Signature of the Inventor upon the Bottles, on the Label over the Cork, and on the Wrapper.

Retail Price, 4s. 6d. and 11s. per Bottle. Set of Apparatus for Administration, 15s.

PAMPHLETS AND SHOWCARDS FREE ON APPLICATION.

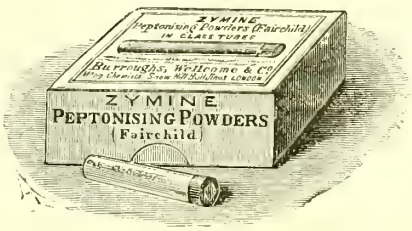
THE SPIRONE COMPANY, LIM., DEPOT— 285 REGENT STREET, LONDON, W.

DIGESTIVE PREPARATIONS

(FAIRCHILD).

ZYMINE (Ext. Pancreatis—Fairchild) is a dry powder, and contains all the ferments (Enzymes) of the pancreas in a very active form. Trypsin—which converts albumens (of Milk, Beef, Fish, Blood, &c) into Peptone in either neutral, alkaline, or slightly acid media; Amylopsin—a form of diastase which converts starches into dextrins and sugar; Steapsin—Emulsive ferment necessary to the assimilation of fats and oils; and, lastly, the Milk-curdling or Rennet ferment.

ZYMINE PEPTONISING POWDERS, which are composed of Zymine and a proper proportion of Sodium Bicarbonate, are supplied in boxes of 12 tubes each, the contents of each tube being sufficient for the rapid and thorough peptonisation of various forms of invalids' diet—milk, gruel, jellies, custards, &c. Full directions are given with each box, so that the most inexperienced attendant may easily carry out the process.



ZYMINE TABLOIDS, each containing 3 grs. of the pure Zymine, will be found a highly convenient form for the regular administration while attending daily duties.

COMPOUND ZYMINE TABLOIDS present Bismuth Subnitrate, so highly esteemed in allaying irritability of the alimentary tract, in combination with Pancreatic Extract and Ipecac., the latter acting as a stimulant of the intestinal digestion.

ZYMINISED SUPPOSITORIES (Milk and Meat) are exceedingly effective when it is necessary or advisable to rest the stomachic function. They are readily assimilated, and cause no irritation in the rectum.

THE ABOVE ARE SUPPLIED TO THE TRADE AS FOLLOW:—

	Per doz.
Zymine (Ext. Pancreatis) ½-oz. bottles	20/0
" " 1-oz. "	60/0
Zymine Peptonising Powders, 1 doz. tubes in box	14/0
Zymine Tabloids, 25 in bottle	18/0
" " 100 "	48 0
Zymine Comp. Tabloids 25 in bottle	18/0
" " " 100 "	48/0
Trypsin (Pure), 1-drachm bottles	54/0
Meat and Milk Suppositories (*see Zyminised Meat and Milk Suppositories*), 12 in a box	22/0

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LONDON - Snow Hill Buildings. | NEW YORK— 82 & 84 Fulton Street. | MELBOURNE— 456 Collins Street West. | BRUSSELS— 80 Montagne de la Cour. | PARIS—Pharmacie Centrale de France.

A CHEAP AND PROFITABLE LINE TO STOCK.

"VASELINE" (Blue Seal, without Cardboard Case)

We are packing this in 2 sizes at prices which cannot be rivalled.

No. 1 size (6d. Bottle) in Boxes of ½ Gross.
No. 2 „ (1/- „) „ „ 1 Dozen.

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Sole Proprietors and Makers of "VASELINE."

"TABLOIDS"

Are more profitable to dispense than pills or powders made by hand, for the following reasons:—

1. They can be quickly dispensed by affixing the doctor's directions to the package in place of or in addition to the regular label.
2. Expenses of delivery of the medicine can be avoided, as prescriptions for "Tabloids" can be filled in a few minutes.
3. "Tabloids" are supplied by us at such very reasonable prices that they pay an excellent profit when dispensed by the dozen at the ordinary prices.
4. "Tabloids" are so agreeable and pleasant a form of medicine that patients do not hesitate to take the full quantity prescribed, and to repeat the prescription if so directed, instead of throwing the medicine away as some are liable to do if it be unsightly or disagreeable.
5. "Tabloids" are much more easily swallowed than ordinary pills, and are usually much smaller for the same quantity of medicament.

All pharmacists who have laid in a good stock of "Tabloids," and informed their local medical men of the same, have found the venture most profitable in every way.

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BEST BLACK INK KNOWN.

DRAPER'S INK
(DICHROIC).

When this Ink is used writing becomes a pleasure.

May be had from all Chemists and Druggists and Stationers.

Can be obtained in London through Messrs. Barclay & Sons, Farringdon Street; W. Edwards & Son, 157 Queen Victoria Street, E.C.; F. Newbery & Son, Newgate Street; S. Maw, Son & Thompson, Aldersgate Street; Ayrton & Saunders, Duke Street, Liverpool; Goodall, Backhouse & Co., Leeds; John Heywood, Deansgate Street, Manchester; James Hemington, 6 Moor Street, Birmingham; Henry Hodder, Broad Street, Bristol.

In Jars, 6d., 1s., and 2s. each.

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SOLE MANUFACTURERS—

BEWLEY & DRAPER (LIM.), DUBLIN.

See "Chemist and Druggist," December 15th, 1874.

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For Infants, Children, and Invalids.

GOLD MEDAL AWARDED—HEALTH EXHIBITION, LONDON.
HIGHEST AWARD—ADELAIDE, 1887, and MELBOURNE, 1888.

The Lancet describes it as "Mr. Benger's admirable preparation."

The London Medical Record says: "It is retained when all other foods are rejected. It is invaluable.

The British Medical Journal says: "Benger's Food has by its excellence established a reputation of its own."

The Illustrated Medical News says: "Infants do remarkably well on it. There is certainly a great future before it."

Benger's Food is sold in Tins at 1/6, 2/6, 5/, & 10/, by Chemists, &c., Everywhere.

Wholesale of all Wholesale Houses.

THE CHEMIST AND DRUGGIST

Established 1859.

Chief Office: 42 CANNON STREET, LONDON, E.C.
Branch Offices: FINK'S BUILDINGS, MELBOURNE, VIC., and EMPIRE CHAMBERS, YORK STREET, SYDNEY, N.S.W.

A weekly journal, supplied from the chief office in London to subscribers and persons connected with the trade only. Subscription, 10*s.* per year, payable in advance, including a copy of the Diary next published, and postage to any country in the world. Single copies, 4*d.* each. Cheques and Postal Orders should be made payable to "Edward Halse," and crossed "Martin's Bank (Limited)."

As an Official Journal

The Chemist and Druggist is supplied regularly to every member of the following Societies:—Pharmaceutical Society of Ireland, South African Pharmaceutical Association, Midland Pharmaceutical Association of New Zealand, Central Association of New Zealand, Otago Pharmaceutical Association, Pharmaceutical Society of Queensland, Pharmaceutical Society of South Australia, Pharmaceutical Society of Western Australia, and Tasmanian Pharmaceutical Society.

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"GUIDE TO THE PRELIMINARY EXAMINATION."

2*s.* *Post free*, 2*s.* 3*d.*

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Edwards, W., & Son, London
Glasgow Apothecaries' Company, Glasgow
Hirschfeld Bros., Bream's Buildings, Fetter Lane, E.C.
Kimpton, Henry, 82 High Holborn, W.C.
Lloyd, T. Howard & Co., Leicester
Maw, S., Son & Thompson, London
Newbery, F., & Sons, London
Potter & Clarke, London
Raimes, Clark & Co., Edinburgh
Raimes & Co., York
Smith, T. & H., & Co., Edinburgh
Thompson, John, (Limited), Liverpool
Woolley, James, Sons & Co., Manchester

Aniline Colours in China.—The importation of aniline colours into China is increasing every year. The colour most in demand is scarlet, which is used for dyeing paper and cotton. Yellow, the imperial colour, is only employed in the Government workshops. Shanghai is the centre for the importation of colours, and the trade is in the hands of the German houses, although all the products introduced are not of German origin; they also come from England, Belgium, and France.

Summary.

Mr. Stead is now anxious to try a cure for dipsomania upon half-a-dozen hereditary and confirmed drunkards.

Sir Dyce Duckworth last week alarmed continental teetotallers by advocating moderate drinking at one of their conventions.

Only one out of eight French pharmaciens who sought the suffrages of the people has been returned to the Chamber of Deputies.

Cinchona-sales were held in London this week after a month's interval. Low prices ruled, 1½*d.* per lb. being the highest obtained.

Two shopkeepers in the West Riding have been fined under the Sale of Food and Drugs Act for selling paregoric not of B.P. quality.

The creditors of Mr. James Best, chemist, Moorgate Street E.C., have met, and have agreed to leave the affairs in the hands of the Official Receiver.

We hear by cable from Chicago that the International Pharmaceutical Congress has opened successfully under the presidency of Professor Remington.

"Veterinary Shoeing Forge" is still an obnoxious title in the eyes of the R.C.V.S., and they have recovered a fine from a blacksmith who used it.

The Royal College of Surgeons in Ireland no longer equires candidates for their dental diploma to show that hey have been three years with a registered dentist.

In connection with the Lawes and Gilbert memorial, the Chemical Society has presented the eminent agriculturists with an address. We print a recent portrait of Sir J. H. Gilbert.

We comment in an an Editorial note on the recent resolution of the General Medical Council to cease recognition of American dental diplomas, and on the American view of the subject.

In the notes on the Chicago Exhibition which we publish this week particulars are given of essential-oil distillation in the United States, and of the Bulgarian otto-of-rose industry.

Professor Charcot, the eminent French neurologist, has died of an attack of *angina pectoris*. We give a brief sketch of his life and his comment on influence in the treatment of nervous diseases.

Correspondence in regard to Conference topics bulks largely in our pages this week. Some of Mr. Corder's bibliophilic statements are called in question, and with regard to several papers there are notes of correction.

The case of the Pharmaceutical Society of Ireland against Mrs. Ruppert, maker of the skin-lotion which has gained some notoriety, for contravention of the Pharmacy Act, has ended in the Society's favour. We give a full report of the proceedings.

We discuss the possibilities of the proposed Trade Federation, regarding which a meeting was held at Nottingham last week. Mr. Harry Kemp writes to say that our representative was not refused admission to the meeting, at the same time admitting that reporters were excluded.

In the House of Commons on Monday, Mr. F. C. Frye, M.P., asked the question about prosecutions for the sale of patent medicines containing poisons, the terms of which we gave last week. The Secretary to the Treasury declined, however, to take the responsibility of controlling the action of the Pharmaceutical Society.

English News.

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

Institute of Chemistry Examinations.

The Council of the Institute have reappointed Professor Wyndham R. Dunstan, F.R.S., and Mr. Thomas Fairley, of Leeds, examiners. In addition to the usual examinations for the associateship in London there will be examinations this year in Glasgow for Scottish candidates, and in Dublin for Irish candidates. Those who enter for Dublin or Edinburgh will pay an additional fee of 2*l.* 2*s.*—*i.e.*, 4*l.* 4*s.* on the whole. Forty-four candidates have entered for this year's examination. The present strength of the Institute is 731 fellows, 104 associates, and 163 students—an increase of 7 members and 54 students. Amongst recently-elected students are Messrs. L. A. Baiss, H. Burrows, E. W. Hutton, H. A. D. Jowett, and William Moore, and Miss S. E. Williams, recommended by Professor Dunstan, and Mr. A. H. M. Muter, recommended by Dr. John Muter.

Dr. A. Dupré has been elected Vice-President in succession to Professor T. E. Thorpe, resigned; and Dr. Stevenson Macadam, of Edinburgh, has been elected a member of Council.

A 100-per-cent. Dividend.

The report issued by the directors of Brunner, Mond & Co. (Limited), Northwich, for the first half of this year shows a balance of net profit amounting to 251,219*l.* 7*s.* 10*d.*, which, with the amount of 172,754*l.* 13*s.* 10*d.* brought forward from the previous half-year, makes a total of 423,974*l.* 1*s.* 8*d.* The directors propose to give a dividend of 7 per cent. on the preference shares and 100 per cent. on the ordinary shares. The balance to be carried forward is 89,900*l.* 12*s.* 11*d.* The directors propose to offer to allot at par to both ordinary and preference shareholder, a number of ordinary shares of the value of 10*l.*, of which 2*l.* 10*s.* per share is to be paid, to rank for dividend from July 1, 1893.

The Chapel and the Chemist's Light.

At the Thorne County Court on August 18, before Judge Masterman, William Armitage, chemist, brought an action against the trustees of the Methodist New Connexion Chapel, to recover damages for obstructing his light and to restrain the defendants from building further. The trustees are raising the chapel, and plaintiff complained that they were interfering with the light of his kitchen and bedroom windows. In cross-examination, he said the trustees spoke to him about purchasing some property at the back of the chapel, but he refused to sell it. He bought his house sixteen years ago, and had enlarged the kitchen window, dropping it about one foot. The plans having been examined, the Judge granted an injunction ordering that defendants should not build beyond an angle of 45 degrees from a foot above the level of the kitchen window.

Explosion at a Wholesale Druggist's.

On Friday afternoon, August 18, a workman who was repairing a tank in the gateway of Messrs. C. J. Hewlett & Son's establishment, in Charlotte Street, E.C., incautiously applied a light, when an explosion took place. The firm's employés speedily extinguished what little fire there was before the fire-brigade arrived. The unfortunate man, Harry Goss, aged 35, was found to be injured, and was at once conveyed to the hospital. We are glad to learn that he is progressing as favourably as could be expected. Messrs. Hewlett & Son inform us that the damage to their premises was trifling, and that no interference with business whatever has in consequence taken place.

Poisonous Patent Medicines.

In the House of Commons on Monday, Mr. Frederick Frye asked the Secretary to the Treasury, it having been stated by the Parliamentary Committee of the British Medical Association, in their recent report on the sale of patent medicines, that the further action of the Public Prosecutor in respect of actions taken by him had been limited by the directions given to the officers of the Treasury by the Attorney-General—firstly, to prosecute only in the event of a particular preparation being really poisonous or dangerous on the ground of poisonous ingredients; and, secondly, that the mere presence of a poisonous ingredient, if not in sufficient quantity to make the article sold poisonous, would not justify proceedings under the 17th section of the Act—whether the Pharmaceutical Society was justified, in face of this restriction, in continuing to demand penalties from tradesmen throughout the kingdom; and, if so, on what grounds.

Sir John Hibbert: The directions given by the late Attorney-General to the officers of the Treasury are correctly quoted, and have been and still are acted upon by the Director of Public Prosecutions. I am not prepared to give a legal opinion as to the action taken by the Pharmaceutical Society, in the exercise of its discretion, or in accordance with the advice of its legal advisers.

A Cornish Exhibition.

On Saturday last, after a successful run of just a month, the Cornwall Fisheries Exhibition, held at Truro, was brought to a close. The following awards were made:—*Gold Medals.*—Fry & Sons, Bristol, for cocoa; Breeze & Co., Plymouth and Devonport, for baking-powder. *Silver Medals.*—Magnetic Filter Company, London; Southall Bros. & Barclay, Birmingham, for cod-liver oil; Cadbury Bros., Birmingham, for cocoa; Davis, London, for chemical-apparatus; Percy, C. B., Truro, for rennet; Birks, Manchester, for rennet-powder.

An Order for Cooling-medicines.

At the Guildhall Police Court, on Tuesday, William Chandler, 48, clerk, giving an address in Blackfriars Road, was charged with attempting to obtain goods by means of a forged order. According to the evidence the accused met a lad in Aldersgate Street, and asked him to take an order, which he showed him, into Messrs. S. Maw, Son & Thompson, druggists' sundriesmen, of Aldersgate Street. They would, prisoner told him, give him a parcel, which he was to take to him (prisoner) in Newgate Street. The lad took in the order, which purported to be signed by Jefferson Dodd, chemist, Tottenham Court Road, for "one dozen Eno's fruit salt, and one dozen Lamplough's." Mr. Lister, one of the overlookers at S. Maw, Son & Thompson's, had his suspicions, and made up a dummy parcel, which was handed to the boy with instructions to take it to the prisoner. The lad was followed by Mr. Lister and a constable. The lad, when he met the prisoner, said, "It is a very light parcel," and the prisoner felt it, but at once gave it to him back, saying, "I don't want it now." Mr. Lister subsequently gave accused, who denied that he ever had the order or the parcel in his possession, in custody. Mr. Dodd did not give prisoner any order. Mr. Alderman Phillips granted a remand.

The Wine and Water Trades.

In the City of London Court, on Tuesday, the case of Pohl *v.* Macnaghten came on for hearing, before Mr. Commissioner Kerr. The plaintiffs, Messrs. Emil Pohl & Co., sued the defendant, Mr. A. H. Macnaghten, a mineral-water manufacturer, and a member of the Gotesberger Water Company, 17 St. Dunstan's Hill, to recover 39*l.* for wine supplied. The order for the wine had been given to Mr. Randolph Payne, the former agent to the Gotesberger Water Company. Payne, who owed Mr. Macnaghten some 44*l.* for mineral water supplied, passed on the order to the plaintiffs, who duly supplied the wine and sent in an invoice. Now Mr. Macnaghten said he knew nothing of the plaintiffs; he gave the order to Payne, and as Payne owed the Gotesberger Company money, he sought to set this debt off against the one owing to the company. Mr. Payne said it was well understood that the order was to be given to the plaintiffs, and the sole object in giving it was to induce the plaintiffs to "push" the sale of the Gotesberger water, which they promised to do. His Honour gave judgment for the plaintiffs for the amount claimed.

Lawes and Gilbert's Experiments in Agricultural Chemistry.

In connection with the Rothamsted Jubilee, the Chemical Society presented to Sir John Lawes and Sir J. H. Gilbert

an address expressing their sense of the extraordinary value of the labours of these chemists in the field of agricultural science, admiration of their researches, and gratitude for the immense number of exact data which they have placed at the disposal of chemists. According to the Chemical Society, there is no parallel in the history of science to Lawes and Gilbert's achievement in carrying on a single research without interruption during a period of over fifty years. The plan laid down at the commencement has throughout been most rigidly adhered to, which is evidence of the skill originally displayed in its inception, and gives to the work its peculiar value. The address proceeds:—

While affording guidance to the agriculturist, your researches have elicited information which will ever serve as the foundation of a truly scientific knowledge of the correlation of plant-growth and manurial constituents of the soil, and will be of the utmost value in all discussions of the chemistry of plant-life. Your researches on the feeding of animals, in like manner, are not only of practical importance, but also shed much light on the processes of animal life.

Great, however, as is the actual value to agriculture and agricultural science of your work, the example your single-minded devotion to the cause of scientific truth and research has afforded to the world is unquestionably to be regarded as of far greater value. Yours is the model of all agricultural experimental stations, and the methods that you have introduced are everywhere regarded as classical.

The rare and enlightened munificence which has led the one of you to institute and maintain such a series of inquiries having been supplemented by a provision for the future conduct of the experiments in order especially to make it possible to deal with the great question of the ultimate exhaustion of the soil, the debt of gratitude which science owes to the founder of the Rothamsted experimental station is extended into the distant future.

It is, consequently, with a full sense of the inadequacy of our expressions that we to-day offer to you our heartfelt thanks and our warmest congratulations on your having been able to achieve results of such magnitude and importance.

Chivalry in the Pepper-trade.

It has been asserted by a Hackney inspector under the Sale of Food and Drugs Act that there is no pure pepper unless it is ground by a steel mill, because the peppercorns are of such a nature that they wear away other materials. But this, he added, when giving evidence before the North London Police Magistrate on Tuesday, would not account for 35 per cent. of foreign matter in the pepper under review. The case had another novel aspect, inasmuch as when the defendant—a small grocer, of Clapton—stood before the dock, a gentleman from a City firm of provision-dealers stepped forward and asked to be made defendant in the case, for the simple reason that his firm had supplied the pepper. Mr. Lane, Q.C., said that under the Act notice of this desire should have been given to the prosecutors before coming into Court. At any rate, the City firm would have the privilege of paying whatever fine and costs there might be. The wholesale man, proceeding, said he thought it but just that he should pay the fine, because he was, as it were, the middleman in the transaction, and the firm from whom he purchased the pepper had sold it to him as "absolutely pure" (the receipt and guarantee produced). Mr. Lane: And you sold it to the defendant now before the Court just as you got it? The Witness: Exactly. Mr. Lane: Very well; I shall inflict a fine of 2*l.* and 12*s.* 6*d.* costs. The City man, true to his word, paid the fine and costs, though the conviction went against the small shopkeeper.

Prussic acid Poisoning.

William John Cagier, an engineer, residing at Cricklewood, was found dead in bed last Monday morning. He had taken a poisonous dose of prussic acid, but whether intentionally or not the jury would not say. There was a pile of medical books at his bedside, and a collection of the deadliest poisons, which the Coroner said was worthy of a country chemist's shop. A brother-in-law of deceased stated that he was a very scientific and inquisitive man, and fond of trying drugs. Dr. Wilson, of Cricklewood, testified that death was due to prussic acid.

The "Black Doctor."

Mr. Coroner Macdonald held an inquest at St. Luke's Court, on Tuesday, respecting the death of a woman named Ann Crickett, who had succumbed to an attack of diarrhœa. She had been treated by a doctor for a day. This medical gentleman was not present at the inquest, but another, who had been called in at the last moment to take his place, suggested that the gentleman was not qualified.

"Why, what does he do?" asked the Coroner.

"He attends at a chemist's shop in Lever Street, St. Luke's," replied the Coroner's officer, "and there is a plate up and 'T. J. Thorne, Surgeon.' He is not qualified, but is known as 'The Black Doctor.'"

"That is very extrordinary. It astonishes me," continued Dr. Macdonald, "that he has escaped so long. Has this been going on any time?"

"About a couple of years," a juryman said.

"And he has a large practice in the district," added the officer.

"But who signs his certificates?" went on the Coroner.

On being told that the man signs them himself, Dr. Macdonald said: "This is a very serious matter. This man poses as a qualified medical practitioner. He deceives those who may call him in, and puts the public to the expense of an inquest in the case of every death that takes place under his hands. I shall most certainly acquaint the proper authorities who have to deal with these things, and see if they will look into this black gentleman's goings-on."

"Truth" on the Medicine-stamp.

Truth of this week says:—"I have received a good deal of correspondence with reference to recent remarks in *Truth* on the patent-medicine tax. No one, so far as I can see, can produce an intelligible argument in favour of the tax, while the objections to it are legion. I have much pleasure, therefore, in again recommending this impost to Sir William Harcourt for summary execution in his next Budget. The duty is theoretically unsound, as being an indirect tax on articles many of which may be classed as necessaries. In practice it is open to the further objection that the Government stamp, by which the duty is collected, creates in the minds of the ignorant the impression that the articles so distinguished are in some way approved by Government. There is no such tax at present in force, so far as I can learn, in any other civilised country; and the Americans, who formerly enforced one like it, have given it up. The only possible reason for maintaining it is the difficulty of supplying its place, and to a Radical Chancellor of the Exchequer, that ought to be no reason at all, so long as the burden of taxation stands, as it does, in need of readjustment all round."

The Weekly Half-holiday.

The chemists and druggists of Bolton have decided to close their establishments at 5 o'clock on Wednesday afternoons.

Irish News.

Alleged Robbery.

Two men, named Mulvey and Mooney, have been committed for trial at Dublin, on a charge of breaking into and stealing from the drug and chemical establishment of Messrs. Boileau & Boyd, a number of money scrips of the value of 3*l.*

Personal.

Mr. Joseph Brownrigg, chemist, Dublin, was instrumental last week in saving from a watery grave a would-be suicide, named Haslem. Mr. Brownrigg was passing by the river, and seeing the struggles of the drowning man, ran swiftly to the nearest life buoy, which he dexterously threw within reach of the now terrified suicide.

Medicine Contract.

Messrs. Harrington & Sons, Cork, have been appointed drug and medicine contractors to the Wexford Board of Guardians.

Scotch News.

Killed by Bow's Liniment.

An elderly woman named Ann Daly or McDonald, died in the Edinburgh Royal Infirmary on Sunday, from the effects of poisoning. It appears that she had accidentally drunk a quantity of Bow's liniment, mistaking it for whisky or rum.

Nitric-acid Poisoning.

A man is under arrest in Glasgow on a charge of administering nitric acid to a servant-girl of 21. The man has confessed that he wished to be revenged on the girl, who is under treatment.

French Pharmaceutical News.

(From our Paris Correspondent.)

Salindres Liquefied Chlorine.—It is reported that the firm of Péchiney & Co., of Salindres, have now perfected their method of producing chlorine from the residues of the Solvay alkali-method, but now that they have overcome the technical difficulties they are faced by an equally objectionable transportation one. The French railways demand very high rates for carrying the liquefied chlorine, which is the form in which Péchiney & Co. propose to sell it.

Among the successful candidates at the French midsummer examinations were the two sons of Mr. Jarvis, English and French chemist, of Pau. Mr. John Jarvis, the elder son, obtained the "certificate of stage" at Toulouse, entitling him to enter the Faculty as a student, and his brother, Charles George, passed with honours the examination for Bachelier des Lettres, and was also successful in carrying off the only prize offered by the Minister of War for proficiency in military exercises at the Pau Lycée.

The New Pharmacy Bill has, by the dissolution of Parliament, been thrown back to its initial stage. If the strict letter of the law is followed, the work of the past Session will have to be recommenced, as, although the Bill has passed its second reading in the Chamber of Deputies, the Senate has still to give its final approbation. Under the most favourable circumstances some energetic member of the new Chamber may ask for "urgency" for the Bill, and if it were complied with, this somewhat unfortunate piece of legislation would be hurried forward.

A Pharmaceutical Factory.—A complaint recently addressed to the Paris police accused Mme. Berneau, residing in Rue Boileau, Auteuil, of manufacturing illicitly and offering for sale a pharmaceutical product known under the name of "Elatine." A police commissary attached to the School of Pharmacy was commissioned to summon Mme. Berneau, but this lady was able to prove that the manager of her laboratory is a qualified pharmacist, and in this way the law is in no way infringed. The representative of the law could only retire from the case and tender his apologies. An interesting detail may be added: Mme. Berneau is the divorced spouse of M. Henri Rochefort, who has availed himself of the hospitality of English soil to escape prison for his connection with the Boulanger movement. The lady seems to find pharmacy profitable, and occupies a neat little house near her factory.

A New Botanical Museum.—The Director of the Museum at the Paris Jardin des Plantes has just inaugurated a new section of his department, in the form of a botanical exhibition—or, rather, museum—which is to become permanent, and everything that is utilisable in the vegetable world will be grouped therein. In each showcase will be placed either an entire vegetable family, or only a single specimen, in scientific order. In the first instance, a photograph of the entire plant will be shown, and, when possible, the plant itself; then samples of all the products which are supplied therefrom for industry, chemistry, or pharmacy. In addition, a catalogue will supply information concerning the history of the plant, a list of places where it is cultivated, its cost, &c. The museum is still somewhat in a state of chaos, but, when M. Milne Edwards has completed his labours, the collection should be interesting alike to the manufacturer and the *savant*.

Pharmacien Deputies.—The general election on Sunday last proved singularly unsuccessful for the eight pharmacien candidates. Only one, M. Bourgoin, Professor at the Superior School of Pharmacy, who came forward as a Republican representative at Vouziers, Ardennes, secured his election on the first ballot. He obtained 7,448 votes, against 6,075 given to Baron de Ladoucette, the former deputy. Of the other seven candidates, five were thrown out, while the remaining two have still a remote chance of success on a second ballot. Three of those who failed hold public offices in their respective towns. Four of the eight candidates were Republicans, one a Radical, and three Socialists. Were it not for the electioneering expenses, the position of Deputy in France is not by any means to be disdained. The emoluments are 25f. per day, and every member of Parliament has a first-class pass on all the railway lines throughout the country.

Proceedings Regarding "English Pharmacy."—An action concerning the proprietorship of a trade-name was tried recently at Nice, the plaintiff being the owner of what has been known as "The Carabacel's English Pharmacy." His case was that a competitor had adopted the same style, and he claimed a prior right to its exclusive use, having adopted it some years ago. The Tribunal of Commerce, before whom the matter was tried, decided that a large number of Nice pharmacists make use of the words "English Pharmacy" with a view to informing the numerous members of the English-speaking colony of the town either that products coming from England may be obtained at their establishments or that assistants are engaged from across the Channel. Consequently, no one has a right to its sole use. Moreover, the defendant's place of business being in the Carabacel quarter of Nice, like that of the plaintiff, he has the right to use that name also. Judgment was consequently given for the defendant, with costs. The word "Carabacel" written in the possessive case seems to give a very un-English twang to both the pharmacies. It would be more excusable were a foreign chemist in London to put up such a sign, for instance, as "The Piccadilly's French Pharmacy."

Death of Dr. Charcot.—The famous specialist in hypnotism died on Wednesday, August 16, at the age of 68, at Chateau Chiron, Morvan, where he was passing a short holiday with a few friends. As a distinguished *savant* and an eminent professor Dr. Charcot exercised a very considerable, and often salutary, influence on contemporaneous medicine. His reputation as an authority on all diseases or exceptional conditions of the nervous system was world-wide. Born at Paris, November 29, 1825, Jean Martin Charcot obtained his doctor's diploma in 1853. Three years later he was appointed "Médecin du Bureau Central." In 1862 he became attached to the service of lunatics at the Saltpétrière Hospital, and from that period are dated his important studies on the nervous system. The Academy of Medicine elected him a member of that body in 1873, and in 1880 he was nominated Clinical Professor of Nervous Maladies, which post was created expressly for him. The learned professor was also a member of the Institute of France, the Royal Irish Academy, the Royal Medical and Chirurgical Society of London, as well as of numerous other scientific societies. The funeral took place on Saturday morning last, accompanied by military honours, Dr. Charcot being a Commander of the Legion of Honour. The ceremony was attended by representatives from the leading scientific bodies of France. Amongst the numerous wreaths that decorated the coffin was noticeable one from the pharmacists of the Salpétrière Hospital. The religious ceremony was performed in the chapel attached to the hospital, and the interment took place in the family grave at the Montmartre Cemetery.

Asbestos in olden times was spun and made into table-cloths, serviettes, &c., which were cleaned by being passed through the fire, and this material was also used by the ancients to wrap around corpses before placing them on the funeral pile, in order that the ashes might not be mixed with the wood.

Foreign and Colonial News.

Linseed Wanted.—During last month all the linseed-oil mills in the Western States of the Union were closed up for want of seed.

A False Cochineal has appeared on the Continental market It is made of exhausted cochineal powder, coloured with rose aniline, formed into granules, and dusted with chalk.

Indian Opium.—The Indian Government propose to offer only 42,300 chests of Bengal opium for sale in 1894, or 3,525 each month—1,710 chests will be Benares opium, and 1,815 chests Patna opium.

A Good Blaze.—The L. H. Harris Drug Company's store, Pittsburgh, Pa., was destroyed by fire last month. The building is a complete wreck. Mr. A. C. Henderson's drug-store, in the same building, was damaged by water. The loss to the two drug-firms and to the owner of the building will be about $140,000.

Italian Pharmaceutical Congress.—Italy is not to be done out of a pharmaceutical congress, although Milan was remiss as regards the international one. It is announced that a congress will be held at Naples in the autumn of 1894, and Mr. L. d'Emilio, of the Neapolitan Pharmaceutical Association, is looking after the matter.

Dispensaries in Burmah.—More than 6 per cent. of the total population in Lower Burmah, and nearly 5 per cent. in the upper province, resorted to Government dispensaries last year for treatment. So popular, indeed, are these institutions becoming that the supply of medical subordinates to take charge of them has completely broken down.

Salicylid-Chloroform.—Some time ago we announced the discovery of a new way of preparing chloroform by taking advantage of the readiness with which it combines with salicylid. It was shown at the time that certain alkaloids exhibit the same property as salicylid, nevertheless the Aktien Gesellschaft für Anilinfabrikation has taken out a German patent for the salicylid process (D. R. P. 69,708.)

The International Medical Congress.—News moves slowly sometimes. The announcement which we made three weeks ago that the above Congress has been postponed until April next has since dawned upon some of our English contemporaries, but we scarcely expected that an Italian contemporary would not know of the postponement. That is so, however; one reaches us dated August 15 which still contains notice of the meeting to be held next month!

The U.S.A. Wholesale-druggists' Convention.—Mr. James E. Davis, the President of the American Wholesale Druggists' Association, has issued an announcement postponing the annual convention, which was to have taken place in Detroit, in September, to October 9 to 12. Mr. Davis's action is said to have the approval of a majority of the Board of Control, and also of a large number of members, but he assigns no reasons for his step, though a circular is to be issued on the subject.

Drug-stores in India.—The Bombay Government have ruled that in future no medical officer in charge of a hospital or dispensary, or any compounder, dresser, or other servant of such institution, shall have any interest in a private dispensary or druggist's shop. In places where there is no approved druggist's shop or private dispensary, a medical officer may, with the consent of the civil surgeon and the managing committee, keep a private supply of medicine for the use of his private patients.

Fatal Carbolic-acid Explosion.—It is seldom that we hear of a carbolic-acid explosion, but there is no reason why it should not explode if the conditions are favourable. We hear of a case from Austria. An apotheker placed a bottle of the acid in crystals upon his kitchen-fire plate in order to melt it. The acid was overheated, and, as the stopper was fixed, the bottle burst and enveloped the kitchenmaid in a burning vapour of carbolic acid. She was so seriously injured that she died next day.

Sale of Poisons in India.—The *Indian Medical Record* again urges the necessity for restriction on the sale of poisons in India, and mentions that of late years the stock-in-trade of Bazaar merchants has been found to include almost every known medicine in the British Pharmacopœia and a varied assortment of "patents." Even those English medicines classed under the head of "poisons" are sold to anybody who chooses to ask for them at prices ranging from 6 pies upwards for an ounce. The following quotations speak for themselves:—Dilute hydrocyanic acid is sold at 8 annas an ounce; ferrocyanide of potassium (yellow prussiate of potash) at 1½ *anna an ounce* [pray, Mr. *Record* Editor, what is wrong about this?]; morphine hydrochloras at 12 annas a drachm; oxalic acid at *six pies an ounce!* Opium itself is not to be had, save in licensed opium-shops, yet its preparations, and among them morphia, are procurable *ad libitum*. Arsenic can be got with as little fuss as a child gets a pennyworth of sweets from a confectioner.

New Companies.

"Poseidon" (Limited).—Capital 2,000*l.*, in 1*l.* shares. Objects: To manufacture a certain specific, or proprietary medicine, for the prevention and cure of sea-sickness, and for doing everything to promote the sale and development thereof. The first subscribers (who take one share each) are:—A. H. Elworthy, Inverness Terrace, Fulham, gentleman; Frances M. Elworthy, Inverness Terrace, spinster; Elizabeth A. Elworthy, Inverness Terrace; H. W. Elworthy Kingswood Road, Moseley, traveller; Elizabeth G. Elworthy, Kingswood Road; Catherine A. Grounds, Wednesbury Road, Walsall; Maud A. Seawell, Hurlingham. Registered without articles of association.

The British & Foreign Mineral Water Company (Limited).—Capital 35,000*l.*, in 10,000 preferred shares of 1*l.* each, and 25,000 ordinary shares of 1*l.* each. Objects: To take over and carry on the business of the British and Foreign Mineral Water Company, at 500 to 508 New City Road, Glasgow, as manufacturers and vendors of mineral and other waters, importers of liquors, and any other business which may be incidental thereto. The following are the names of the subscribers who take one share each:—Victor Zinkeisen, yarn merchant, 225 George Street, Glasgow; Victor Zinkeisen, Junr., yarn merchant, at same address; Alfred Schmidt, mineral-water manufacturer, 508 New City Road, Glasgow; William Zinkeisen, chemist, 508 New City Road; Glasgow; H. A. Salvesen, steam-ship owner, Grangemouth; John Sugden Smith, manufacturer, Wyke, Yorkshire; and John M. Murray, chartered accountant, Glasgow.

Adams, Webster & Co. (Limited).—Capital, 8,000*l.*, in 1*l.* shares. Objects: To acquire the goodwill of the business of carbolic and chemical manufacturers, and makers of chemical manure and other preparations carried on at Hackney Downs and elsewhere, under the firm of Adams, Webster & Co., and to continue this business in every way. The first subscribers (who take one share each) are:—W. Adams, 11 Manor Place, N.E., manufacturing chemist; J. Tofts, 6 Paulet Road, S.E., clerk; U. Owen, 546 Harrow Road, W., gentleman; T. H. Hammersley, 25 Pelkrin Road, N., gentleman; A. J. R. Gooderson, 54–6 Palmerston Buildings, E.C., accountant; H. N. Howard, 5–6 Palmerston Buildings, E.C., accountant; W. C. Brooks, 29 Regent Square, W.C., gentleman. Most of the regulations of Table A generally apply. Registered by A. A. Hannay, 30 Coleman Street, E.C.

Simplex Mineral Water Aërator Syndicate (Limited).—Capital 5,000*l.* in 1*l.* shares. To acquire an invention for "an improved apparatus for the manufacture of aërated water or other liquid, and to carry on business as manufacturers, &c., of aërators, and all kinds of machines, and of waters and beverages of any description. The first subscribers (who take one share each) are: F. Ledger, 14 St. Mary Axe, E.C., merchant; P. Houston, 119 St. Vincent Street, Glasgow, merchant; G. S. Dundas, Hoe Street, Walthamstow, clerk; W. Nutter, 7 Whittingstall Road, Fulham, clerk; J. Rumens, 98 Reighton Road, Upper Clapton, clerk; C. M. Bentley, Muswell Hill, N., traveller; T. W. White, 3 East India Avenue, E.C., merchant. The first directors are: F. Ledger, W. Earnshaw, and T. W. White. Qualification, 100*l.*; remuneration to be determined in general meeting. Registered office, 3 East India Avenue, London.

Legal Reports.

Pharmaceutical Society of Ireland v. Ruppert.

On August 17, in the Southern Division of the Dublin Police Courts, before Mr. Byrne, the Pharmaceutical Society of Ireland summoned Mrs. Anna Ruppert, of London, for having, on June 8 last, sold and kept open a shop at 74 Grafton Street, Dublin, for the dispensing and retail of poisons, she not being licensed to do so.

Mr. Collins (Messrs. Casey & Clay) appeared for the Pharmaceutical Society, and Mr. E. L. Ennis, B.L., represented Mrs. Ruppert.

Mr. Ennis said his client's health did not permit of her coming over from London, and they had a certificate from Dr. Myers, of Euston Square, to that effect; but she did not object to the case being heard in her absence.

Mr. Collins said the case had been already twice adjourned in consequence of Mrs. Ruppert's inability to attend. The summons was brought under section 30 of the Irish Pharmacy Act, 1875, which imposed a penalty of 5*l.* for each offence upon any person, not registered as a chemist, who sold or kept open shop for the retailing, dispensing, or compounding poisons within the meaning of the 33rd and 34th Victoria, chap. 26. Section 27 of the same Act made the register of pharmaceutical chemists evidence in courts of justice. Section 1 of the Poisons Act provided that the several drugs enumerated therein should be deemed to be poisonous. Mrs. Ruppert was not registered, and it would be proved that what she had been selling contained corrosive sublimate, one of the poisons named in the schedule of the Poisons Act.

Mr. Ferrall, Registrar to the Pharmaceutical Society, produced the register to prove that Mrs. Ruppert was not a licentiate of the Society.

Mr. Patrick Watters, who said he was Inspector to the Pharmaceutical Society, deposed that on June 8 he purchased the bottle of "Skin-tonic" produced at Mrs. Ruppert's premises in Grafton Street. He bought it from a girl whom he believed to be an assistant in the shop. He took the bottle to Professor Tichborne some days later.

In reply to Mr. Ennis, the witness said he did not see Mrs. Ruppert in the shop when he bought the bottle, and he did not know whether she lived in Ireland or not.

What business were they carrying on in the shop besides this skin-tonic?—I could not tell you. I went in for no purpose but to purchase this.

What sort of business was being carried on?—They had stands of bottles of various kinds.

On re-examination by Mr. Collins, the witness produced a receipted bill for the bottle which he purchased.

Mr. Collins said the receipt was headed "Ruppert's Skin-tonic. Anna Ruppert, sole proprietor and manufacturer."

Mr. Ennis: It does not purport to be signed by Mrs. Ruppert.

Mr. Collins (to witness): Did you pay for the goods and get that receipt?

Witness: I did.

Mr. Ennis: There is a photograph of the lady, but the man cannot identify her as having seen her in the shop.

Mr. Collins: That is not necessary. She is carrying on the business.

Professor Tichborne, examined by Mr. Collins, said he was an apothecary, a pharmaceutical chemist, a Fellow of the Institute of Chemistry, and also county analyst. He had had about thirty years' experience. He received the bottle of skin-tonic from the last witness in June. He made an analysis, and found that it was practically a solution of corrosive sublimate containing about 8 grains in the whole bottle, which contained about 7 fluid oz. In Taylor's "Medical Jurisprudence," a most important work, there were two cases recorded where adults had been poisoned by 5 grains.

Was there a label on the bottom of the bottle?—Yes, there is rather a peculiar point about this bottle. I noticed on the bottom of it a label which was evidently gummed over another label. The upper label is simply an address-label, having the name Ruppert on it. On the one underneath are the words, "As amongst the ingredients in this tonic there is one which the law demands to be labelled as poison, and although in this connection it is absolutely harmless, Mrs. Ruppert has no alternative but to do as the law directs." That is supposed to be a label of "poison" in fulfilment of the requirement of the law; but it could not be read or seen until the upper label was steamed off.

Mr. Collins: So that although she pretends to comply with the law by affixing a poison-label, she covers it up so that it cannot be seen?

Witness: Yes.

This is called a skin-tonic; what is the price of it?—I cannot say. It is a very old remedy for removing freckles. There are two or three old recipes containing a solution of corrosive sublimate. It is a very good and efficacious remedy, but it should be used with great caution, and I think strictly under medical surveillance, because the contained poison is a very powerful one, and the preparation is given to people who do not know that it is a poison, and constantly apply it as a lotion to the face and about the lips, and therefore it is extremely dangerous. It is therefore a very dangerous preparation to hand to the public without any intimation that it is a poison, particularly because mercury is what we call a "cumulative" poison.

Mr. Collins: I should have called your Worship's attention to section 2 of the Act of 1870, the Sale of Poisons Act (33rd and 34th Vic. chap. 26), which makes it unlawful to sell any poison, either by wholesale or retail, unless the box, bottle, vessel, wrapper, or cover in which such poison is contained be distinctly labelled with the name of the article and the word "poison," and with the name and address of the seller of the poison; and also makes it unlawful to sell any of the poisons named in the schedule, or which should afterwards be added to it, to any person unknown to the seller, unless such person is introduced by some person known to the seller. (To Professor Tichborne.) Of course you know that this is for external use?—Yes.

You saw this book in which the preparation is guaranteed to be "harmless, as containing no arsenic, lead, bismuth, silver, lime, or anything injurious to the skin?"—Well, of course that sentence is correct, except the statement that it contains nothing but what is harmless. The poisons enumerated there are not in the preparation, but the poison that is in it is not mentioned. Mercury is peculiarly liable to enter the circulation through the skin. It is very well known that salivation, which is an incipient state of mercurial poisoning, is produced by rubbing a little mercurial ointment under the arms.

Cross-examined by Mr. Ennis: You know, of course, that this preparation is used for external purposes only?—Yes.

In the case which you mentioned from Taylor in which it is stated that 5 grains were sufficient to kill a person, was the poison used externally?—No it was used internally. May I explain what I meant by that evidence? I wanted to point out that there was sufficient poison in the bottle to kill if it should be used for criminal purposes.

In the case you mention the poison was used internally and poisoned a boy?—A man.

That was the most extreme case you could find in Taylor?—There are two cases of poisoning by 5 grains.

Did you see the direction on the bottle that it is to be used for external purposes?—Yes.

I ask you as a professional man, do you know of a single case in which injury has been done to any person by the use of this skin-tonic?—Not in this particular case; but I know a worse case.

Do you know of any case that you have been called on to treat where any injury was done by the use of this skin-tonic?—No.

In reply to another question, Professor Tichborne said that the preparation was flavoured with tolu, and that, irrespective of the corrosive sublimate, the other substances contained in it were not injurious.

Mr. Collins: What is the value of the thing?

Professor Tichborne: Well, the value of the ingredients is, I should say, about a halfpenny.

Mr. Collins: And the price of the bottle is, I believe, 10*s.* 6*d.*

Mr. Ennis submitted that the summons should be dismissed. The offence alleged was of a criminal character, and should be strictly proved; but no sale by Mrs. Ruppert had been proved, nor had anyone deposed to having seen her in the place. It was conceded that she was living out of

the country, and that she carried on a trade that required no licence from the Pharmaceutical Society. Conceding that she was the owner of the shop, if one of her assistants committed this offence, she was not liable for it; but, as a matter of fact, no proof had been given that she was the owner of the place.

Mr. Byrne said it had been proved that this article contained poison, and that Mrs. Ruppert had attached to the bottle a label indicating that it was not poison, another label being covered over, apparently for the purpose of preventing it from being known that there was poison in the preparation. It was the plainest case in the world, and he would impose a penalty of 5*l.* on Mrs. Ruppert.

Mr. Collins asked for costs.

Mr. Ennis submitted that the penalty was enough to inflict on Mrs. Ruppert. She had instructed him that, if it were decided that she had been doing wrong, she would give an undertaking not to use this corrosive sublimate again.

Mr. Collins contended that substantial costs ought to be allowed. Mrs. Ruppert had been selling what was only worth a halfpenny for 10*s.* 6*d.*, and could very well afford to pay them. She had establishments in Paris, Brighton, Manchester, and Sydney.

Mr. Byrne allowed 6*l.* 6*s.* costs to the prosecutors.

Paregoric sine Opio.

At the West Riding Court, last week, Sarah Lambert, shopkeeper, South Hiendley, was charged, under the Sale of Food and Drugs Act, with having sold, on July 28, a quantity of paregoric which was not of the nature, quality, and substance demanded by the purchaser, only containing a minute quantity of opium, instead of the full proportion of 40 grains.

Inspector Kyle proved the case, and pointed out that, under section 8, if the sellers supplied a label with a drug stating what it contained, they would be exempted. There was no label given to him, and no verbal message passed between them as to the contents.

Defendant said she sold the paregoric exactly as she bought it from Mr. Jackson, wholesale grocer, Barnsley. The label on the bottle was, "Paregoric elixir, without opium."

In answer to Inspector Kyle, defendant said she did not get a warranty with the purchase.

The Chairman said the defendant would have to get pure drugs, and would be fined 5*s.* and costs.

At the same Court, Ann Wilkinson, shopkeeper, Ryhill, was summoned for a like offence, the paregoric in this instance being certified by the public analyst to be wholly destitute of opium, which was the most important ingredient in the mixture

Defendant said she supplied the paregoric exactly as she got it from Mr. Phillpott, Sheffield Road, Barnsley.

Fined 5*s.* and costs.

Another Vinegar Prosecution.

Sarah Wilkinson was summoned before Mr. J. Kinghorn on Wednesday, at the Liverpool City Police Court, under the Food and Drugs Act, for selling vinegar which was not of the quality required. The analyst's report said the sample consisted of 90 per cent. of distilled acetic acid and water.

The defendant was fined 5*s.* and costs.

Bankruptcies and Failures.

Re James Best, late of 41 Moorgate Street, E.C., Chemist.

The first meeting of creditors under this failure was held at the London Bankruptcy Court on August 18, before Mr. Russell, acting for the Official Receiver.

The debtor until recently carried on business at Moorgate Street, but he is now described as of 54 Kenninghall Road, Clapton. A receiving order was made against him on August 1, upon a creditor's petition, the act of bankruptcy alleged being that "the debtor on June 27 last made an assignment of his property to Mr. William Judd, as trustee, for the benefit of the creditors generally." The statement of affairs was not lodged in time to enable the Official Receiver to circulate the usual summary and observations, but they will be sent to the creditors later. The accounts show unsecured debts 324*l.* 7*s.* 9*d.*, a partly-secured debt 54*l.* 1*s.* 7*d.* (the security being valued at 11*l.* 10*s.*), and assets estimated to produce 204*l.* 6*s.* 5*d.* The last-mentioned item consists of cash in the hands of the trustee under the deed of assignment 199*l.* 6*s.* 5*d.*, and various company shares now valued at only 5*l.* The deficiency account shows that at July 31, 1892, the debtor had surplus assets to the extent of 200*l.*, and that a net profit of a like amount has been made from the subsequent trading. The deficiency is partly explained by the following items, viz.: Bad debts, 21*l.* 10*s.*; interest and expenses of borrowed moneys, 12*l.* 15*s.*; depreciation in the value of the business owing to keen competition, illness, and other causes, 200*l.*; and depreciation in the value of shares in various companies, 165*l.* 15*s.* The debtor states that he borrowed 300*l.* on the business at 6 per cent. per annum. He valued the business in January, 1892, at 800*l.*, but owing to the above-mentioned causes it depreciated in value, and in June, 1893, was sold for 600*l.* He has also made investments in various company shares, and estimates that during the past year they had depreciated to the extent of 165*l.* 15*s.*

Mr. Newman attended the meeting on behalf of the debtor, and said he had lodged a proposal with the Official Receiver providing for the payment of a composition of 8*s.* 6*d.* in the pound within seven days from the scheme being approved by the Court. The payment would be secured by Mr. William Judd, and certain family creditors would consent to stand aside until the composition had been paid to the other creditors. It was true that at a private meeting held in connection with the deed of assignment a composition of 15*s.* in the pound had been promised, but that arrangement had been entirely upset by the action of the petitioning creditor, and unless the creditors elected to accept the present offer of 8*s.* 6*d.* in the pound, the case would have to go into bankruptcy, and they would get a considerably smaller dividend. The debtor had nothing to conceal or withhold; the whole of the assets were in the hands of the trustee under the deed of assignment, and the debtor was perfectly willing to have the case wound up in bankruptcy if that proved to be the wish of the creditors.

Mr. McArthur (McArthur & Dolling-Smith) said he appeared for the petitioning creditor. His client would have accepted the offer made at the private meeting, but for the fact that no security was offered for the payment of the composition, and even now he heard nothing to show that the creditors would derive any benefit by accepting the proposal.

Mr. Oliver, a creditor for 54*l.*, expressed the opinion that the case was one that ought to be wound up in bankruptcy by an independent trustee, as there were several matters calling for scrutiny. He proposed that Mr. R. W. Bilbey, chartered accountant, 11 Queen Victoria Street, E.C., should be appointed to the post.

On behalf of Messrs. Galbraith, Grant & Co., an amendment was moved that Mr. Wm. Judd, medical accountant, 15 Walbrook, E.C., should administer the estate.

A discussion ensued, in the course of which the Chairman pointed out that the estate, which was only a small one, had been practically realised, and there remained very little for a trustee to do in the matter. The creditors eventually resolved to leave the case in the hands of the Official Receiver, to be wound up in the usual manner.

The debtor was ordered to attend the Court on September 12, for public examination.

Appended is a list of the principal creditors, viz:—

Unsecured.

	£	s.	d.
Best, Dr., Dover	25	0	0
Best, Mrs., 54 Kenninghall Road, Clapton	10	2	6
Cavendish, Edenburgh & Co., 4 Cullum Street, E.C.	14	19	6
Cordell, —, 44 London Road, Clapton..	54	5	9
Galbraith, Grant & Co., Whitecross Street, E.C. ..	39	15	0
Herrings & Co., 40 Aldersgate Street, E.C.	23	14	8
Meggeson & Co., 14 Miles Lane, E.C...	24	0	6
Parsons, J., Executors of, South Yardley	20	0	0
Sinclair, —, 381 Kingsland Road, N.E.	37	0	0
Sutton, W., & Co., 76 Chiswell Street, E.C.	17	17	6

Partly Secured.

Oliver, A. J., Coleman Street, E.C.	54	1	7
(Security valued at 11*l.* 10*s.*).			

SIR JOSEPH HENRY GILBERT.

Among the gentlemen knighted by her Majesty the Queen at Osborne House on Friday, August 11, was Dr. Joseph Henry Gilbert, F.R.S., the eminent agricultural chemist, whose labours, during fifty years past, in conjunction with the systematic experiments conducted at great cost by Sir John Bennet Lawes, Bart., in the scientific farming at Rothamsted, near St. Albans, have conferred immense benefits on modern agriculture. Sir Joseph Henry Gilbert, born at Hull, now 76 years old, began his studies of chemistry at the University of Glasgow, and continued them at University College, London, where he became laboratory assistant to the late Professor Anthony Todd Thompson, but he was also a pupil of the celebrated Baron Liebig, at Giessen. It was in 1843 that he first associated himself with the great and use-

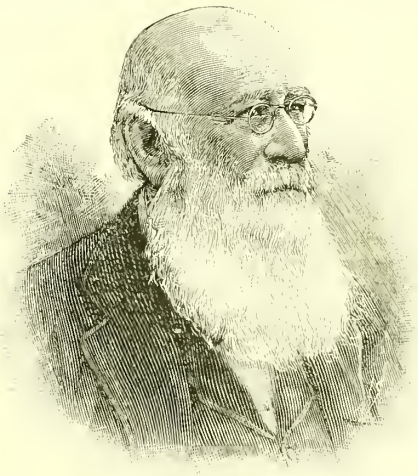


Photo by A. J. Melhuish, Pall Mall.

Sir Joseph Henry Gilbert, F.R.S.

ful work of Sir John Lawes, a Hertfordshire landowner, who had also studied chemistry, and who had perceived the value of bone-dust and superphosphate of lime for manures. The reports and records of their prolonged experimental researches occupy more than a hundred papers contributed to the Royal Society, the Royal Agricultural Society, the Society of Arts, the Chemical Society, and the British Association of Science. Dr. Gilbert, in 1880, was president of the Chemical Section of the British Association, and he has twice or thrice been elected Professor of Rural Economy at Oxford University. His reputation is European, and there are few scientific institutions, at home or abroad, dealing with his branch of knowledge which have not chosen him an honorary member.

ALCOHOL IN MEDICINE.

The fourth international Congress to protest against the abuse of alcohol met at The Hague last week, and there were no fewer than 346 delegates, 80 of whom were ladies. Every country in Europe, with the exception of Turkey and Spain, was represented. This was the fourth Congress of the series, and was by far the most numerously attended. Sir Dyce Duckworth, the English vice-president, opened the first day's discussion with a paper which astonished the delegates. In a cleverly-written essay he argued that moderate drinking was conducive to health and general well-being, and the consternation of the meeting and the indignant expressions his paper provoked were most amusing. When the doctor, who is head physician to St. Bartholomew's Hospital, observed that they could no more abolish alcohol if they would than they could abolish bread and butter, there were heavy groans from all parts of the room; he was not allowed to proceed with his paper for fully three or four minutes until order was restored. Matters grew worse when Professor Sokvis, of Amsterdam, the first medical man in Holland, supported the English doctor's contentions, while the adjournment for lunch was rendered absolutely necessary to avoid bloodshed after the speech of Dr. Schmitz, of Bonn, who was quite of his Æsculapian brethren's opinions.

Sir Dyce Duckworth.

PROFESSOR CHARCOT.

On Wednesday of last week died Jean Martin Charcot, physician, philosopher, and scientist. He was one of the *grandes gloires* of the French nation, and one of the princes of the medical profession. Dr. Charcot was born in Paris in 1825. His father and grandfather were carriage-builders, but from boyhood the future *savant* showed scientific tastes. As a student in the Paris hospitals, and as a junior member of the profession, Charcot passed through a highly successful career, and at the early age of 35 he was apppointed Professor at the University of Paris. Two years later he joined the medical staff at the Saltpêtrière, and it is with this great hospital that his labours and his reputation will ever be associated.

Professor Charcot.

As a teacher of medicine, Charcot occupied an absolutely unique position. His bi-weekly lecture at the Salpêtrière was a sight once seen never to be forgotten. The vast audience of medical men and students gathered from every corner of the earth, and listening with breathless attention; the veteran *savant*, active and alert, painting his "word-pictures" with a vivid terseness that sent the lesson home and riveted it in the memory, were both exceptional spectacles in medical schools. Charcot possessed in a remarkable degree those natural gifts that give the highest success in teaching. Brimming over with energy and enthusiasm, he had the rarer faculty of being able to call forth the energy and enthusiasm of others. His personality compelled the admiration of those who came in contact with him, and his pupils literally worshipped him, not after the fashion of the nineteenth century, but as the great masters of olden times were worshipped by their disciples.

Charcot won a world-wide reputation as a physician. From far and near patients journeyed to seek his help. Most of them were cases of chronic nervous disease, and many of them beyond the aid of earthly science. All however—no matter what the result of their interview might be, no matter whether they learned that they might yet hope or knew that the fiat had gone forth—came away with a conviction that they had been in the presence of a master in his art. Charcot's manner was always courteous and sympathetic. He was a man of many accomplishments, master of several languages, and widely cultured in the literature of his own and other lands.

While his scientific work was by no means limited in its range, he made one department particularly his own. In regard to diseases of the nervous system he was supreme, and may indeed be called the father of our knowledge of nervous diseases. It is almost impossible now to realise how little was known of the nervous system even a few years ago. The endless complications of the networks of nerves and spinal cord and brain had all to be worked out in health and in disease. We know how brilliantly this has been done, and how numerous diseases of the nervous system, formerly supposed to be fatal or hopeless, are now treated and cured as a matter of daily routine. In all the history of science there is no more wonderful chapter than the record of the recent advances of neurology, and it would be difficult to over-estimate how much of it all we owe to the work and to the influence of Charcot.

Within recent years Charcot largely devoted his attention to a study of these curious conditions, now generally known as hypnotism. The subject is at once one of the most

fascinating and one of the most difficult that has ever puzzled the brains of man. In one form or other it has been familiar from the earliest times, but chiefly as a convenient tool for the charlatan and the knave; and, in consequence, there are many good folks, both in the medical profession and out of it, who look askance upon the whole matter, and on all who dabble therein. Prolonged and bitter controversies raged between the school of the Saltpêtrière and its opponents, but all outside the medical profession will agree that it is highly desirable that the subject should be either finally discredited or established on a scientific basis. This is what Charcot endeavoured to do, and he would be a bold man who would venture to predict the limitations of "psychological therapeutics." In any case, we owe a debt of gratitude to the man who was fearless enough to risk his reputation, and boldly crossed the threshold of the mystery.

Trade Notes.

Mr. Watson Will, F.C.S., 1 St. Agnes Place, Kennington Park, S.E., announces that he will open the Metropolitan College of Pharmacy on October 2, for preparing candidates for the Minor and Major examinations.

Among our announcements this week will be found one of Messrs. Martin Perls & Co., of 62–3 Basinghall Street, E.C., who are agents for Messrs. Beyer Frères, of Paris, who claim to be the original manufacturers of machinery for the preparation of soap by what is known as the milling system. The soap-plant exhibited by Beyer Frères at the last Paris Exhibition was one of the chief attractions of the Machinery Hall, and from a pamphlet shown to us we notice that it has already been adopted by over 350 soap-manufacturers in all parts of the world.

L. G. B. Soloids.—During the cholera craze a year ago, the medical department of the Local Government Board recommended the free use of a disinfecting solution for sick-rooms, for washing-utensils, &c., and as this solution was one of corrosive sublimate almost of the strength of liq. hydrarg. perchlor., B.P., there were some grave shakings of the head regarding the wisdom of the recommendation. We did not get cholera, and it is to be hoped that we shall escape it this year again; but the L. G. B. disinfecting solution has, in the course of the year, become very popular with medical men. As it is an active bactericide, cheap and inodorous, it serves many useful purposes wherever infectious disease happens to be, and where linen requires to be steeped in a bactericidal fluid. Messrs. Burroughs, Wellcome & Co. have put up the ingredients of the disinfectant in tabloid form, each one making a pint of the azure-blue solution, and as the tabloids dissolve with astonishing readiness, they are called "soloids." This is a desirable form to have the disinfectant in, for the soloids can be dissolved as required, and in the quantity needed, so that the risk of poisoning by accident is reduced to a minimum, while the cost to the user is trifling—in fact, there is no active disinfectant which comes out so cheap.

Business Changes.

Mr. Roderick Evans, chemist, Lampeter, has sold his branch business at Llanybyther, to Mr. Thomas Davies, for many years his assistant.

Mr. A. P. Hennensley, chemist and druggist, has purchased the chemist and druggist's business carried on at Broadway, Douglas, by Mr. A. E. Woodward.

Mr. J. Bassett, late of 71 Kensington High Street, W., has purchased the business established by Mr. Morris at 162 Green Lanes, Stoke Newington, N., about eighteen years ago.

Personalities.

Mr. Allwood Simpson, chemist and druggist, of Stalybridge, has been elected an alderman of that borough.

Mr. Councillor J. Taylor, F.C.S., &c., chemist, Torquay, has been appointed a justice of peace for the borough.

Mr. James Poole, chemist, Newcastle, Staffordshire, has been appointed a Magistrate for the borough by the Lord Chancellor.

"Sir Andrew Clark has retired from active practice," says the *Pacific Medical Journal*. How our San Francisco contemporary has arrived at this notion we cannot tell, but it is quite wrong.

Mr. S. M. Burroughs, who is now in America, writes to us to say he can introduce an English druggist well supplied with capital to a good thing in the Western part of the United States. Inquiries should be addressed to Mr. Burroughs, Messrs. Burroughs, Wellcome & Co., Snow Hill Buildings, E.C.

Messrs. T. Seymour Mead & Co., merchants, Manchester, who, in November, 1891, and again in May, 1892, wrote to us in reference to the imposture of a young man who was fraudulently obtaining loans from London houses by representing himself as Mr. Mead's son, ask us to again mention the matter, a similar fraud having been brought to their knowledge recently.

Dr. T. Hayward Hayes, a graduate of the Maryland University and a few years ago a struggling drug-clerk in Baltimore, is now, although still a young man, Surgeon-General of the Siamese army, and physician to the household of the king. He is also at the head of large educational institutions, which he has modelled after prominent schools of learning in Baltimore, is in charge of all the hospitals, and, moreover, frequently preaches to the natives and foreign residents, being an accredited minister of the Presbyterian Church.

MARRIAGES.

[*Notices of Marriages and Deaths are inserted free if sent with proper authentication.*]

Featherstone—Williams.—On August 23, at the Wesleyan Chapel, Tregarth, Bangor, by the Rev. R. Williams and the Rev. P. Featherstone, R. H. Featherstone, chemist, son of the Rev. P. Featherstone, of Tunstall, to A. M. E. Williams, daughter of the Rev. R. Williams.

Parr—Kermode.—August 8, at Castletown Wesleyan Church, by the Rev. J. Waterhouse, assisted by the Rev. W. H. Parr (brother to the bridegroom), the Rev. Smith T. Parr, of Port St. Mary, to Meta, eldest daughter of Mr. R. K. Kermode, chemist, Castletown and Port St. Mary, Isle of Man.

DEATHS.

Cannell.—On July 27, George Arthur Cannell, chemist and druggist, Sittingbourne. Aged 56.

Caunce.—On July 29, James Caunce, chemist and druggist, Tunbridge Wells. Aged 76.

Clark.—On July 25, Charles Francis G. Clark, chemist and druggist, late of Dudley. Aged 75.

Davies.—On July 30, Roger E. Davies, chemist and druggist, Corwen. Aged 26.

Kilner.—On August 17, at his residence, 16 Alexandra Villas, Finsbury Park, Mr. William Kilner, senior partner in the firm of Kilner Brothers, manufacturers of glass bottles, King's Cross and Yorkshire. The late Mr. Kilner, who at the time of his death was 67 years of age, had for over a quarter of a century, taken a leading part in the religious work carried on by the Wesleyan Methodist body in the North of London, and was a liberal supporter of the various enterprises associated with the organisation. He was a lay preacher, and a representative member of the Wesleyan Conference.

Strawson.—On August 11, John Strawson, chemist and druggist, Liverpool. Aged 63.

The World's Columbian Exposition, Chicago.

THE work of judging the exhibits is nearly over now, and we may expect the results any day. Amongst the British judges are Mr. Richard Bannister, of Somerset House Laboratories, who will report on food; Professor Silvanus P. Thompson, on instruments of precision; Professor John Milne, on scientific apparatus; and Mr. Ernest Hart, on surgery and medicine.

ESSENTIAL OILS.

We have already described the principal exhibits of oils in the British section, but before referring to those in the American and French Courts, and the few in the Agricultural Building, attention may be called to that of

Stafford, Allen & Co.

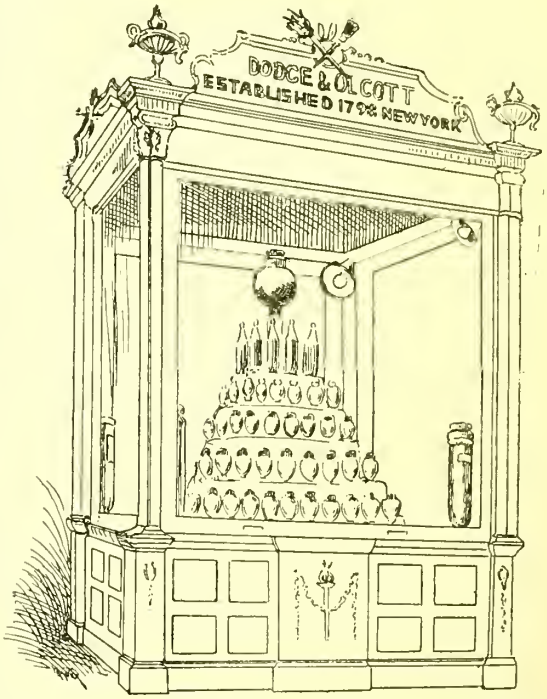
the well-known oil distillers and pressers of Finsbury, who have secured a good place for an upright ebony case, 3½ feet square, in which some of their manufactures are well displayed. Amongst their essential oils are the somewhat rare distillates from cardamoms, celery, and pepper, all of which are water-white oils. Curiously, the same characteristic obtains in the case of oils of cloves and pimento, which is quite natural, but indicates remarkable care in distillation. These oils are shown in from 10 to 20 oz. bottles, while larger quantities of sandal-wood, cubeb, bitter almonds, and peach oils are shown. Four 2-oz. phials of the valuable orris oil, which is solid at the prevailing shade-temperature of 70° to 80°, attract attention, and expressed almond and croton oils complete the selection, although there are some of the commoner essential oils which we have not named. The exhibit is as good a one of the kind as we have seen.

In the American Court we find four exhibits in this class, all of which are placed on the ground floor, and each is distinguished by some peculiarity, so that comparison, were that desirable, is not practicable. For example, in the case of

Dodge & Olcott,

the well-known New York drug-importers, we have an exhibit eminently illustrative of a high-class drug-business, and of the development of a new department thereof—viz., essential oils. Although the firm will in a few years be in the position of celebrating the centenary of their foundation, it is only a decade or two since they commenced to distil essential oils. "We were forced to this," explained one of the energetic young partners to our representative, "by the continued importation of spurious and adulterated oils into the States. Chemical tests were not reliable, and are still most uncertain in detecting sophistication, so we determined to assure ourselves of the purity of the oils we sold by distilling them ourselves. And, do you know, we could scarcely recognise the pure article when we got it, it differed so much from the imported thing—the one we had been accustomed to." The firm's factory is situated in Brooklyn, and was one of the first, if not the first, in the United States in which essential oils other than those of indigenous herbs were distilled. Their business, as our readers are aware, has now extended to Europe, and while with us this industry is on the wane, or becoming concentrated in the hands of a few, we are drawing supplies partly from those who were formerly our customers until Germany supplanted us.

Messrs. Dodge & Olcott's exhibit is displayed in an extremely handsome case made of old mahogany, the outlines of which are reproduced in the following sketch. It is glazed with bevelled plate glass, and at night is illuminated with electric lamps. Four distinct series of essential oils are shown—viz.: (*a*) *Ordinary*, these representing the total volatile oleaceous constituents of the drug, seed, or herb. (*b*) *Redistilled*, which are free from resinous matters, colour, as a rule, and, generally, the natural diluents of the crude oils. (*c*) *Superlative*. These are fractionated oils, being freed from all bodies and terpenes which have neither medicinal activity nor permanent aroma. (*d*) *Artificial*, which comprise both synthetic products and compound oils, such as those for making eau de Cologne, Florida and violet waters, &c. The care bestowed in exhibiting the members of these series is an adequate setting to beautiful products, for it is seldom the pharmacist's pleasure to see oils of such brilliancy as many of those contained in the case. We may instance the American herb-oils—peppermint, spearmint, &c.—and several gallons of oil of cubebs, whose colour is a rich emerald green. We noted also the oils of Tolu balsam, boldo-leaves, parsley, cardamoms, and ginger as examples of what are not seen every day; but when we say that the collection comprises hundreds of specimens without duplication, it will be understood that anything like full reference to the exhibit

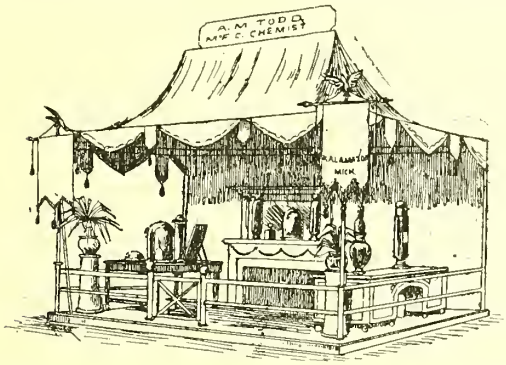


is beyond our space. We ought to mention, however, that besides oils the case contains a nice selection of fine drugs, such as orris, cubebs, rhubarb, cardamoms, and guarana. These are shown not only as they come into the market, but also as prepared for the retail trade. For example, in the front of the case at the base we find a series of hand-cut rhubarb in large and small cubes, slabs, fingers, crescents, &c., all cut with a handsaw; also powdered rhubarb, in five grades, known as "K.O.," "R.O.," "Fine," "Select," and "Extra Select," the last the finest powder possible. There is also a series of comminuted orris for sachet-powders. The powders in different degrees of roughness, and other aromatics which are used for sachet-powders are shown in similar style. The exhibit, as a whole, is one of much interest, and well repays careful inspection.

A. M. Todd.

A few years ago there was a remarkable exposure of peppermint-oil frauds, in the course of which it was shown that dementholised Japanese peppermint oil, natural camphor oil, and turpentine were common additions to what was commonly known and labelled as American peppermint oil. It was boldly alleged by the exposers of the fraud that the

secondary position in which American peppermint oil was placed was largely due to this nefarious practice, and if buyers were willing to pay for a really pure product, they would get an article beyond reproach. The credit for initiating the exposure is due to Mr. A. M. Todd, then of Nottawa, Mich., and now of Kalamazoo, a delightful residential town half-way on the road from Chicago to Detroit. Our representative found Mr. Todd at his exhibit in the Manufactures Building one day, and had a long talk with him about what he saw around him, for the exhibit is somewhat unique in character. Mr. Todd's manufactures are shown in the delightfully shaded booth which our artist has sketched,



but at the other side of the gangway are several cases containing a selection from Mr. Todd's collection of rare books. He is an ardent bibliophile, and has been collecting since first he visited Europe as a boy, some twenty-seven years ago. For the benefit of those who have a taste for old books, we may mention a few of those placed in the exhibition. There is a fine copy of "Mercurius Trismigestus," which is probably the first book on alchemy that was printed: it is dated 1471. A very curious book, "Liber de Arte Distillande Decompositis" (1507) is an example of many works on distillation in the Todd library, and another is "The Art of Distillation and the London Distiller" (1640) some portions of which still do duty in modern scissors-and-paste recipe-books. The works of Glauber, Celsius, Robert Boyle, (first edition), and Geber (1688) are represented, as well as the first Greek (1521) and Latin (1562) printed editions of Galen. Besides these the cases contain excellent examples of sixteenth and seventeenth century binding, several fine manuscript works (illuminated), and a few rare or historic volumes not connected with science.

Mr. Todd commenced to distil peppermint oil when he was eighteen, and from the first he has endeavoured to conduct it on scientific principles. Attention has been given particularly to the distilling-apparatus, and at the present time some improvements therein wait assent at the U.S. Patent Office. The exhibit contains a model of the still used, and it is evident from an inspection of it that it has points of peculiarity. Thus, the vapour-pipes from the distilling-vats are carried to a considerable height, and before entering the condensing-vats they pass through a zig-zag cyclinder cooled by running water. The effect of this arrangement is that an oil is obtained having a finer aroma than when the vapour is conveyed directly to the condensing-worm. Mr. Todd's two principal products are peppermint and spearmint oils, the former being by far the more important. His peppermint farms and distilleries are situated about twenty-five miles from Kalamazoo, and there he has 1,500 acres under cultivation; but, in addition to his own crops, he also obtains supplies from neighbouring farms, just as the distillers in our home counties do. Altogether in Michigan over 10,000 tons of peppermint-plant are distilled every year. It is interesting to note that Mr. Todd is experimenting on the cultivation of Mitcham peppermint. Some years ago he obtained plants from England, both of the white and black varieties, and now has 500 acres planted with them. The black variety thrives well there, and will prove most suitable, especially since it yields a larger percentage of oil, and one as good in flavour as the white peppermint. It differs from the oil of the American plant in being lower in specific gravity, and giving different colour-reactions. It is difficult to distinguish it from the "Crystal White" oil, but there is a difference which an expert can appreciate. Mr. Todd expects a good future for the oil when he places it upon the market. The "Crystal White" oil was first distilled in 1875, and a sample of it was shown at the Philadelphia Exhibition in the year following. That sample is now to been seen at the World's Fair, unchanged, except in respect to viscosity and slightly darkened colour, and the odour is more aromatic, but there is entire absence of anything like turpentine. The characteristic of the "Crystal White" oil is that it is free from the low-boiling terpenes and the resinous matter formed in first distillates. It was owing to the absence of the first-mentioned bodies that Mr. Todd discovered pipmenthol in his oil, for, as Professor Maisch afterwards showed, the presence of a comparatively small percentage of these light terpenes suffices to keep the menthol in solution on freezing. Strange to say, the same condition applies to eucalyptol, and probably this may be found to be a law which determines the liquidity of all natural crystalline bodies in essential oils.

Apart from the "Crystal White" oil, Mr. Todd shows another peppermint oil, whose purification by distillation has been carried even higher. There are also beautiful examples of sassafras oil, the "refined" being almost colourless and of exquisite odour; spearmint oil, oil of ajowan (with a heavy deposit of thymol in it), and birch oil, universally used as wintergreen oil; it is water-white, as compared with the true wintergreen oil, which is of an intense red colour. The last is quite a rare oil.

Before leaving Mr. Todd, our representative asked him if he did much business with England.

"A fair amount," was the quiet response. "I shipped 2,400 lbs. to a London firm last week."

"What becomes of it? Is it sold as Todd's?"

"That's the trouble. I wish it were. I should think that from a half to two-thirds of the oil I send to England is sold as Mitcham-distilled oil, and at Mitcham prices. Buyers do not appear to be able to distinguish 'Crystal White' oil from real Mitcham. I would rather the oil were sold as mine and at my prices."

H. G. Hotchkiss's Sons.

The exhibit by this firm is also placed on the ground section of the building, although in a gloomy part. The firm produce four kinds of peppermint oil, and samples of each are shown in handsomely-engraved pear-shaped bottles, while throughout the case there are numerous specimens of the various containers in which the oils are placed upon the market. The four kinds of oil referred to are "White Mitcham," "Silver Leaf," "Black Mitcham," and "Prize Medal" oils. Those of the Mitcham brands are said to be "English-grown" and "manufactured" by the firm. This statement obviously requires explanation; as it stands it is contradictory. But the exhibit is by no means confined to these oils. We noticed some beautiful oil of golden rod, which has a colour now known as electric blue; there is oil of wormwood, dark in colour, and oils of spearmint, mountain pennyroyal, cedar, tansy, wintergreen, and sassafras. Inspection of such an exhibit from the outside of a case is not satisfactory, and all we can do is to record the fact that H. G. Hotchkiss's Sons are there. The same remark must also apply to the very interesting array of essential oils shown by

Fritzche Brothers,

Garfield, N.J., and New York City. We say essential oils, and while the exhibits in that department are both rare and typical of what are used in medicine and perfumery, there is, besides, a collection of chemical preparations of a perfectly unique character. Amongst the natural products we have noted the following:—

Thymol in large crystals, weighing about a drachm or more. That from oil of ajowan is in larger and clearer crystals than the thymol from oil of monarda (horse-mint); but both are perfectly colourless.

Patchouly camphor ($C_{15}H_{28}O$) occurs in cubical crystals, weighing from 10 to 20 grains.

Menthol from *Mentha Piperita* oil is shown in exceptionally large crystals which exemplify the most distinguishing characteristic between this and Japanese menthol.

Alongside these are dishes of such things as borneol,

cumarin, nerolin, and terpineol, in magnificent crystals, and the whole series of synthetic products, the preparation of which was lately announced by the associate firm Schimmel & Co., are shown in such a way that the visitor can almost trace their genesis. Fortunately, English pharmacists who do not visit the World's Fair may inspect similar specimens at the Pharmaceutical Society's museum, where a duplicate set has been placed. We have mentioned an oil of golden rod as being of electric-blue colour, and in contrast with that Fritzche Brothers show it to be pale yellow. Some other oils we noticed also remarkable for purity of colour, and, therefore, for care in manufacture—*c.g.*, croton oil, which is just similar to ol. amygdalæ dulc. in appearance.

Otto of Rose.

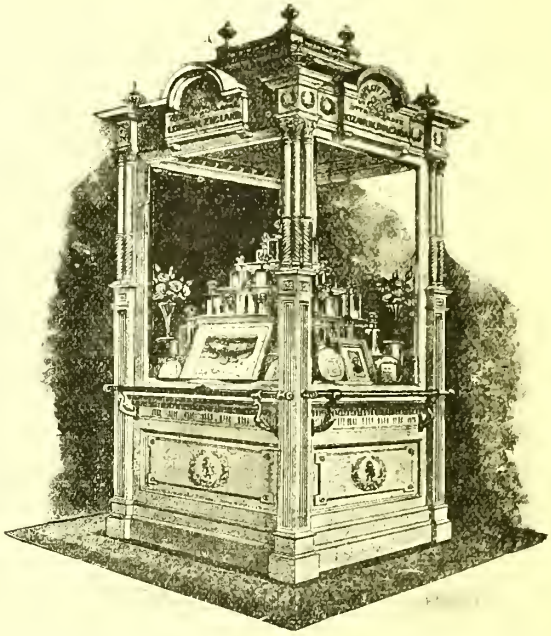
The Bulgarian section of the Manufactures Building (located at the south-west corner) is not extensive, and there is so much tapestry and carpet about it, the ethnological and viticultural are so prominent, that the pharmaceutical visitor is apt to pass it by as being of no special interest to him. But an early conversation which our representative had with the commissioner, who was busily engaged in getting the finishing touches put on the exhibit, was sufficient assurance of the value of one case in the little court, this being devoted to a collection of otto-of-rose specimens, formed by Messrs. Shipkoff & Co., of Kezanlik, and exposed in the handsome case which we reproduce here. The firm are well known to the American and English trade, and it requires so much space to describe what they show that it need only be said of themselves that Mr. K. P. Shipkoff, the head of the firm, has been connected with the rose-industry for more than half a century, and he has now associated with him in the business his sons Peter and Theodore.

The exhibit consists of about 50 samples of otto, no two of which are identical, and together they represent, with admirable completeness, the trade in one of our most valued perfumes. To get to the fundamentals of the industry, it may be stated that there are eight counties in Bulgaria, which form the seat of rose cultivation and distillation, 135 villages are engaged therein, and their annual produce of otto is estimated at 88,000 oz. We name these counties in the order of their importance, and may add that we are indebted to the Bulgarian Commissioner for the notes upon which this report is based:—

County of	Number of Villages	Yearly Product of Otto
		Oz.
Kezanlik	46	35,000
Karlovo	30	22,000
Brezovo	17	12,500
Tchirpan	9	3,700
Staro-Novo-Selo	9	3,500
Peshtera..	4	3,300
Stara-Zagora	12	2,800
Nova-Zagora	8	2,200

In the exhibit-case there is a map showing the location of the villages, and it appears from this that the rose-district is confined to the southern slope of the Balkans, and comprises the whole branch range of the Little Balkans, which is, roughly, about 80 miles long by 30 miles broad. The average elevation at which the rose is cultivated is about 1,300 feet. The actual area devoted to rose-farms is 5,500 acres.

The quality of otto obtained from the different counties and different villages varies materially in colour, odour, specific gravity, and freezing-point. The average factors for genuine otto, are sp. gr. 0·852, and f.p. 65·5° to 66·5° F., but in some cases the freezing point may be 2 degrees above the higher figure. Messrs. Shipkoff & Co. exhibit three samples to illustrate their stock of 1890, 1891, and 1892; these being blends of otto selected from some thirty-four villages. Of course all otto in the market is blended, and there is an art in blending otto of rose, just as there is in blending tea or whisky. Messrs. Shipkoff obtain their chief supply from Kezanlik, which annually yields 35,000 oz. Their case contains fourteen specimens from the county, representing the product of as many villages, and showing specific gravities varying from 0·848 to 0·854, the freezing-points being from 65·5° to 68° F. There are six specimens from Karlovo, sp. gr. 0·851 to 0·856, and f.p. 65° to 66° F.; from Brezovo, four specimens, sp. gr. 0·848 to 0·854, and f.p. 65° to 67·5° F.; Tchirpan gives two, sp. gr. 0·8515, and f.p. 66·5° and 67° F.; from Staro-Novo-Selo there are also two, sp. gr. 0·854, and f.p. 65° F.; two samples from Peshtera differ only from the last in freezing-point, being half a degree lower; while two



from Stara-Zagora have a lower specific gravity (0·852) and a higher freezing-point, 65·5° F.

Whether there is any connection or not between high freezing-point and low density remains to be investigated, but it is curious that the last and smallest district also shows this characteristic; two specimens being sp. gr. 0·849 and 0·850, and f.p. 66·5° F. A contrast of the factors cannot be out of place, although it does not conclusively show a fixed principle:—

S. G.	F.P.	S. G.	F.P.
·848–·854	67·5°–65°	·8515	66·5°–67°
·848–·854	68° –66·5°	·852	65·5°
·849–·850	66·5°	·854	65°
·851–·856	66° –65°	·854	64·5°

We may explain that the specific gravities have been determined at 86° F., which accounts for the comparatively low factors.

In addition to these typical samples of individual distillates, the exhibit contains specimens of Shipkoff's own specialities. First are three specimens of green otto distilled from the flowers of *Rosa damascena*, and not redistilled. This otto is characterised by low specific gravity (0·830 to 0·840), and high freezing-point (68° to 70° F.). White otto is distilled from *Rosa moschata*, the white rose, which grows on the highest altitudes, and yields an exceedingly fine otto, but we are unable to give its factors, although we may say that this otto has a high specific gravity. Still another essentially fine otto is represented—the "Golden"—for which nothing but the petals of the flowers are used; and, again, another which may be said to represent the refuse of the "Golden," this being distilled from the green parts of the flower which are not used in distilling the highest quality.

Apart from these specimens, the case contains pictures of the more interesting occupations in the rose-industry, such as the collection of roses and the distilleries; facsimiles of the principal kinds of roses, and eight coppers representing the quantities of otto which the firm obtain from the eight

rose-counties. It will thus be seen that the exhibit is one which may be said to be a concrete history of the otto-of-rose industry as it is to-day.

HERE AND THERE.

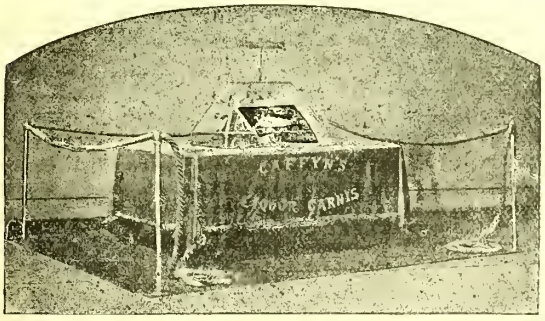
A Japanese Apollinaris.

The Japs are notorious imitators and an enterprising people, but we could not have imagined that there was anyone amongst them who had "check" enough to attempt to supplant the table-water which is even more popular in the United States than in the United Kingdom. But we had not reckoned upon Jinzaburo Marui, Hyogo, a gentleman who owns a spring of carbonate water, and who is putting it up in bottles with labels which so closely resemble that of Apollinaris that our representative had to take a second look before assuring himself that the article was not the Rhenish water. This exhibit is placed in the Japanese section of the Mines Department, and is called "Hurano" water. The native attendant could tell our representative nothing about the water further than it is quite popular in Japan, and a copy of an Imperial Japanese Government analysis shows that the water has a specific gravity of 1·0022, and contains 2·858 per mille of solids, 1·55 of which is sodium chloride. There are traces of lithia, manganese, boric acid, bromine, and iodine, amongst more common water constituents. Presumably the water has a place in the Mining section as a companion to bags and bottles of common salt, but it is surprising how classification leads us afield. To get to Apollinaris we must go to the Agricultural Department, but that must be left for another day. One more curiosity from this Japanese section. It is "Kiyokawa's retouching solution for dry negative-plates." It is the quaintness of the directions which attract attention, for we look in vain for specimens of the solution. This is how the plates are to be fixed:—

Mix the same quantities of Hypothesulphyte Soda Dissolution and Alum Dissolution in hot weather, but 1 oz. of alum and 3 oz. of the soda (or better not to use alum in cold climate), and these quantities are different in different climates and places. The excessive use of alum is to be avoided, inasmuch as it tends not to peel off the gelatine.

The Liquor Carnis Exhibit.

This was one of the English exhibits which we omitted to notice in their order, because the few sentences which can be written regarding it could not do justice to the beauty of the exhibit: it requires a picture to show the style in which one of the leading West-end furnishers has carried out Mr. Shepperson's idea of exhibiting. The handsomely-covered table which is represented here stands in the Agricultural Building, a perfect little oasis in a desert of conventional exhibits. The allotted space is carpeted and surrounded, as shown, by



a silken-rope railing. In the pyramidal case, upon which stands a mimic finger-post with Liquor Carnis preparations pointing the roads to health and vigour, are specimens of all the company's products. The exhibit could not be much smaller than it is, but we question if there is anything more effective in that part of the building. A leading place is given to "Virol," the company's latest and most successful speciality. Doctors have taken well to this preparation, the essence of all that we regard as most nourishing having appealed strongly to them. The case also contains specimens of the strictly pharmaceutical preparations—suppositories, &c.

Nostrums Exhibited.

It was one of the earliest decisions of the Board of Administration that nothing in the shape of nostrums or quack medicines would be allowed to be placed on exhibition in the great fair; but some makers of such articles have got the better of the administrators in the matter. In the American Section there are, naturally, more sinners than in any other section, and nobody can understand how they happened to secure space. In the Spanish and several other Foreign Courts there are also pharmaceutical exhibits which are nothing more nor less than proprietary medicines. We do not suppose that any of these exhibitors will derive much benefit from the fair—in fact, we have a suspicion that the Americans amongst them have had their object secured by getting their manufactures placed; but a principle has been violated, and the proprietary-medicine trade, as a whole, have a grievance. "Why should a few have been allowed to exhibit?" they righteously ask, and the administrators seek in vain for a consistent reply.

A Fair Souvenir.

One of the best souvenirs of the Fair has been published by Mr. Dundas Todd, of the "Tribune" Building, Chicago. This consists of about 100 reproductions of photographs taken in and around the Exhibition buildings. In publishing this souvenir, Mr. Todd shows how it is possible to defy the official photographer and break the monopoly which the administrators gave him. Mr. Todd was only an amateur photographer when he was in Edinburgh, where, by the way, he took part with Mr. J. A. Forret, the chemist, in the invention of a flash-lamp. He went to Chicago about a year ago, and filled in time by taking views of the Exhibition for Mr. Arnold. Tiring of Mr. Arnold, he began to take quarter-plate pictures with a queer hand-camera, rigged up by himself, so that from 40 to 50 negatives could be taken in a day. The officials tried their best to stop this wholesale fashion of defying the regulations, but the camera was in accordance with official requirements, and the photographs were not sold in Chicago. So Mr. Todd has been photographing for months, and as a result he has given the world some of the finest photographic views of the Exhibition. Those which our representative inspected while in Chicago far excelled the official photographs, although they are only quarter-plate views. The collection which Mr. Todd has now published is unique. We understand that lantern-slides from his negatives will be obtainable from Messrs. York & Co.

Gazette.

PARTNERSHIPS DISSOLVED.

Light, E., and Beddow, G., Calcutta-works, Farrance Street, Limehouse, E., under the style of Light & Beddow, manufacturers of disinfectants.

Tate, J., and Tate, J. E., Golcar, near Huddersfield, under the style of John Tate & Son, mineral-water manufacturers.

THE BANKRUPTCY ACTS, 1883 and 1890.

Receiving Orders.

Court, Alfred, Kentish Town Road, N.W., chemist.

Dobson, Fred Ainsworth, Birkenhead, chemist and druggist.

Taylor, John Ellor, Ipswich, professor of natural science.

The Brazilian Drug-trade.—Drugs and chemicals are not imported into Brazil to any extent from the United States; but certain manufacturers of proprietary medicines send round their travellers occasionally and advertise their remedies extensively, and thus hold their own. The French are formidable opponents in this line, and the Brazilian takes kindly to anything from France. The local chemists and druggists have lately commenced manufacturing their own specifics, which readily find purchasers. So says the United States Consul at Rio Grande do Sul.

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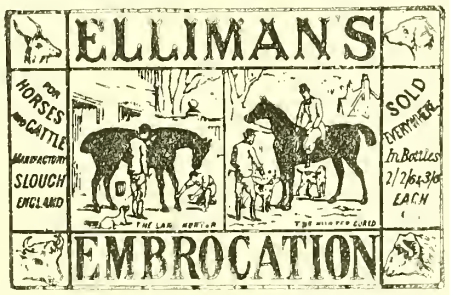

See first page, inside of front cover, of the first issue of this month, for latest particulars.

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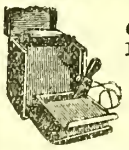
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British Medical Journal.
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Editorial Comments.

THE GREATER UNITY OF PHARMACISTS.

We cannot do other than wish success to the sanguine local secretaries and local association delegates who met at 9 o'clock in the morning, one day last week at Nottingham, and resolved to form "a Federation of local pharmaceutical

associations," having for its object "to promote the greater unity of pharmacists and the better protection of their trade interests."

The union of persons engaged in the same occupation or profession for defence and advancement is so natural, and indeed so necessary, that few trades, and none of the so-called professions, have omitted to organise themselves into some such sort of combination. But most of these have a more obvious purpose in view than this new Pharmaceutical Federation would seem to have. Colliers, Sailors, Builders, and other workmen know perfectly well what they form their "unions" for; so do the doctors, the lawyers, and the landlords. All have some rights or privileges which they think it well to defend, or they see some which they want to possess. They can probably make out a good case for themselves; possibly their demands are reasonable; but it is obvious that in all cases, from the fact that they have to be fought for, the justice of their claim is more or less in dispute. But, just or unjust, there is no doubt of the unanimity with which these claims are supported in the respective bodies by which they are put forward. Did anybody ever hear of a workman who doubted his moral right to another 6*d*. a day and an hour less to earn it in; of a doctor who would not render it penal, if he could, for anyone to advise on ailments, except registered medical men; or of solicitors who could contemplate unmoved the spectacle of a layman forming his own opinion on points of law?

In all these unions there is something substantial to fight for, and something which all the associates are agreed in demanding. But our local secretary friends seem to be forming their Federation without any definite, and certainly without any unanimously held, purpose in view. We were not admitted to their initiatory ceremonies, it is true, but we have not reported this class of meeting all these years without getting a pretty accurate idea of the general run of the discussions which take place at them. It will be observed from the resolution that they are going beyond the mere linking of provincial associations which has been advocated in this journal, the idea of which was merely to provide a means of communion, so that any topic of common interest might be promptly discussed all over the country. They are aiming, they say, to promote unity and to protect trade interests. What are the trade interests which just now specially need protection? For what object is united action desirable?

There is a small section of chemists perfectly impervious to experience, who never cease to speculate on the possibility of inducing all their fellow-chemists to act promptly and unitedly at somebody's call on behalf of a certain policy or against a certain grievance. They are fond of figuring how much 10,000 subscriptions of 5*s*. each would come to, or of estimating the effect of 10,000 simultaneous petitions to Parliament on a given subject. To such speculators this Federation will be most fascinating. It will offer the prospect of touching a button and rousing the 10,000 confederates in a week.

But when these grievance-mongers can be induced to make a definite written statement of what they seek to accomplish, their objects are found to be sometimes vague, generally impracticable, and not unfrequently quite unreasonable. We do not by any means allege that these descriptions apply to the objects of the promoters of the new Federation. But we very much doubt whether they can show a scheme of trade-protection to struggle after for which they can secure anything approaching a majority of trade votes. Take, for instance, the subjects specially advocated by the gentlemen who devised this Federation. There is Mr. Thompson, for instance, the President of the Midland Counties Chemists' Association, who thinks we should suddenly float in smooth water if the members of the Pharmaceutical Council were elected by districts instead of by cumulative voting. Probably less than a hundred pharmacists care a button how the Pharmaceutical Council is elected. The Nottingham chemists have recently pressed for a modification of the Medicine-stamp Acts. Their proposals would in practice render the administration of those Acts impossible. We do not believe that a quarter of the chemists of the country would support this movement. Other founders of the Federation have eloquently urged that chemists are entitled to more profit than they can get nowadays, but we do not know that any one of them has formulated a scheme to secure such a result. Several of them think all would be well if the trade universal could be induced to join the Pharmaceutical Society. The trade universal has invariably rejected the appeal. We shall watch with interest the development of our new Association's programme, which was certainly stated a little indefinitely in the very formal communication which, so far, is all the Executive have been pleased to publish.

A HISTORY OF MEDICINE.

Dr. Edward Berdoe has industriously compiled and pleasantly written "a popular history of medicine in all ages and countries." This is the sub-title of his work, the leading heading being "The Origin and Growth of the Healing Art." The treatise is published in a handsome volume of over five hundred pages by Messrs. Swan Sonnenschein & Co., and is interesting and readable from start to finish.

We gather from Dr. Berdoe's preface that this is the first time such a history has been published in anything like complete form in English. Half-a-dozen German authors and two or three French doctors toiled at the work, and several of their studies have been translated into our language. Bits of medical history have been the subject of lectures to an almost wearisome degree. Hippocrates, Paracelsus, and Harvey have been commented upon as frequently as Shakespeare or Cromwell, and the lessons of their lives have been extracted so often that there is hardly any moral nutrition left in them. But in Dr. Berdoe's work these are only items in a miscellaneous crowd of all kindred and tongues from Hermes Trismegistus to Sir Andrew Clark.

It need hardly be said that neither Dr. Berdoe nor any of the great men with German names who have previously written on the history of the medical art knows anything whatever of the origins of medicine. They can tell us that we learned the virtues of calumba from the savages on the Zambesi, of jalap from the Mexicans, of cinchona from the Peruvians, of copaiba from the aborigines of the Amazon, and so forth; but how these people learned about them nobody can tell. We owe nearly the whole of our materia medica to unknown savages: whether they discovered their properties by experiments on brutes is beyond the reach of investigation. Dr. Berdoe, who is well known as an anti-vivisectionist, refuses, of course, to admit any such hypothesis. He says from such experiments they would have learned that horses can eat aconite, birds belladonna, and goats hemlock with comparative impunity. That may be, and a few scores of niggers may have died through making the mistake, but this proves nothing against the possibility of the general practice. It is difficult to imagine that the barbarians neglected such an obvious means of testing any new plants they came across, and no one can suppose that they had any scruples about sacrificing a few monkeys.

Primitive surgery was, as might be expected, based on rather more practical foundations than primitive medicine. The stupidest of our ancestors could hardly have trusted twice to an incantation or to the beating of a drum to stop the bleeding from an artery or to set a broken limb. The compatibility of a high degree of surgical skill with the most idiotic ideas in regard to medical treatment is well illustrated in the records we have, or can piece together, of Egyptian science. Dr. Berdoe quotes from Dr. Granville, who says, "There is not a single form of bandage known to modern surgery of which far better and cleverer examples are not seen in the swathings of the Egyptian mummies. The strips of linen are found without one single joint, extending to 1,000 yards in length." And he adds that the priest-physicians of Egypt could successfully treat any fracture known to modern surgery. At the same time they were teaching, as regards medical treatment, that the body of man was divided into thirty-six regions, each dominated by a particular demon, and that the effectual method of cure was to call on the particular demon by name. They administered drugs as a kind of supplementary treatment.

The medical theories of the early Jews, Greeks, Persians, Assyrians, and Hindus were all similarly fantastic—we may say crazy. Those peoples were not senseless in other matters, and we are much inclined to doubt whether the fragments of their medical lore which have reached us at all represent the true state of knowledge among them. It is likely enough that the absurdities, or at least the stories bordering on the miraculous, would be those which would "catch on," and it is not impossible that the general practitioner went on his way much in the same humdrum and sensible fashion 2,000 and 3,000 years ago as the country doctor goes on now: not troubling himself much about theories, but applying the remedies which experience had taught him were the best in particular cases.

It was simply a common sense application of experience and observation which constituted the greatness of Hippocrates, and later of Paracelsus. What specially distinguished these teachers from their contemporaries was their absolute rejection of the incredible and absurd. Both had an immense following, which showed that they were not proclaiming new and startling views so much as giving expression to the latent but inarticulate ideas of the general body of those whom they addressed.

It is not our intention to follow Dr. Berdoe through the mysteries of the medical lore of the Druids, the Teutons, the Anglo-Saxons, the Mahommedans, and amid the pedantic ignorance of the Middle Ages. As a collection of curious facts, and as a fairly comprehensive storehouse of the records of the practitioners of the art, his work is of the highest excellence; but for practical usefulness, for any guidance to the seekers after truth in this age, we can hardly say he has justified his labours. The impression conveyed is that the world would be scarcely a loser if the deeds and discoveries of all the investigators named in it up to almost the present century were swept into oblivion. So much of medical knowledge as is worth retaining from the storehouse of the past was either contributed by unknown savages or is a reminiscence of a state of civilisation of which no record remains.

AMERICAN DENTAL DEGREES.

It will be remembered that at their last meeting the General Medical Council decided to cease recognition of the certificates of the degrees of Doctor of Dental Medicine of the University of Harvard, and Doctor of Dental Surgery of the University of Michigan, until further notice. This resolution was come to in accordance with the provisions of the Dentists Act, which enabled the Council to recognise "for the time being," the Harvard and Michigan qualifications. This *proviso* has served its purpose, and since it has come to the knowledge of the Council that the preliminary examinations of the universities are below the Council's own standard, they could not consistently continue to recognise the diplomas—at least, in the case of those who have commenced their dental studies since the Dentists' Act passed into law.

We are naturally curious to see how American dental authorities regard this resolution, and that is fairly expressed in *Dental Cosmos*, one of the leading exponents of American dentistry. Our contemporary considers that the Council's resolution presents two distinct elements—first, the assumption of superiority of the English dental curriculum, with its necessary implication that this same superiority is a characteristic of the product of that curriculum; and, secondly, the justice of their exclusion Act, which is also based upon this asserted superiority as noted. "If we grant the major premise of English superiority in dental educational matters, then the justice and consistency of the exclusion Act admit of no further argument. It is simply a legitimate exercise, under the sovereignty of the State, of its proper authority, everywhere conceded among intelligent people as necessary and right for the protection of its citizens." But there are other considerations than these, and perhaps the most important is the fact that the Council recognised only two American diplomas, although there are at least a dozen of equal value. It is, therefore, right that the whole of them should be placed on an equal platform. The *Cosmos* also approves of the principle that the dentist should be a thoroughly educated man, but we question if our contemporary fully appreciates the gravity of the General Medical Council's case, which is essentially that of the whole nation in regard to professional or semi-professional callings—viz., that those who enter such occupations must show at the beginning a certain standard of classical, historical, linguistic, and mathematical knowledge. We, as Englishmen, maintain that that is a necessary basis for professional education, and this is a point which American educational institutions have not, except in a few instances, arrived at. As we had recently occasion to show, it is true of American pharmacy; it is also true in regard to dentistry, and we have a strong suspicion that medical degrees are granted in the United States to persons to whom orthography is one of the greatest difficulties of life. It is for Americans themselves to look to this matter, and by earnest agitation to secure a uniform standard of preliminary education for all who enter the learned professions.

The second element in the General Medical Council's decision which our contemporary refers to—viz., the assumed superiority of English dentistry—is one which should be closely watched. We are afraid the *Cosmos* is right in saying that "this English dental exclusion Act has made itself manifest in the development of a pharisaical attitude on the part of some of the dental profession of England with respect to American dentistry." The trouble is that the pharisaical attitude existed before the General Medical Council's resolution. There is a small but influential set of men in the dental profession who have been persistent in attacking American dentistry as practised in England, and we are not quite sure that it is not their bitterness which has led up to the Medical Council's resolution. However that may be, one thing is certain—viz., that this pharisaical attitude is not general. There is a wholesome respect in this country for American dentistry. It is felt that many modern improvements in dental mechanics are of American origin, and if

in more recent times English methods have been able to hold their own that is largely due to the fact that our cousins across the Atlantic have taught us a great deal.

INTERNATIONAL PHARMACEUTICAL CONGRESS.

We learn by cablegram from our American correspondent that the International Pharmaceutical Congress was opened at the Art Institute, Chicago, on Monday. The attendance was moderately good, and business was commenced by the election of officers. Professor J. P. Remington, of Philadelphia, who last week presided at the American Pharmaceutical Association meeting, was appointed President, and Professor Oscar Oldberg, of the North-Western University Pharmacy School, Chicago, was elected Secretary. Thereafter the reception of delegates from foreign countries—amongst whom were Messrs. Carteighe, Martin, and Martindale, representing the Pharmaceutical Society of Great Britain—and the other business of the Congress was proceeded with.

The continued serious illness of Professor John M. Maisch rendered impossible his appointment as President, which many Congress *habitués* anticipated as a mark of honour to the veteran pharmacognosist.

THE VETERINARY SURGEONS STILL AT IT.

A man named Albert Holbrook was prosecuted at the Westminster Police Court on August 16 by the Royal College of Veterinary Surgeons for having on the door of his blacksmith's shop, in Little Exeter Street, Sloane Street, the following inscription :—" A. Holbrook. Veterinary shoeing-forge. With the late T. Whitten." The defendant produced the card of a firm of veterinary surgeons whom he said he employed, and claimed that this gave him the right to use the words. The Magistrate offered to adjourn the case that these gentlemen might be called as witnesses, but the defendant, after some hesitation, declined the offer. Mr. Thatcher, the solicitor to the R.C.V.S., said if the statement were true those gentlemen were liable to be struck off the register for unprofessional conduct. The Magistrate, Mr. de Rutzen, then said that every publicity appeared to have been given to the decision of the Queen's Bench, and the defendant must have known of it. He was, however, inclined to deal leniently with him as this was the first offence, and would only fine him 10*s*. and costs. The word " veterinary" must, of course, be removed at once. We find the report of this case in the *Veterinary Record*. We are not much surprised at the action of the College in continuing these prosecutions after the sharp reverse experienced the last time the College appeared in the Queen's Bench Division. But we are surprised at Mr. de Rutzen. There is no substantial distinction between " veterinary forge" and " veterinary chemist." The same arguments both for and against apply to both, and, to use Mr. de Rutzen's own words, we may say that every publicity appears to have been given to the decision of the Queen's Bench, and he (the Magistrate) must have known of it. At least it is as reasonable to expect it of him as of a blacksmith. We hope that when another case comes before him he will be as familiar with the second judgment as with the first. Let him then adopt the one which seems to be the most reasonable.

MR. STEAD'S LATEST MEDICAL MIRACLE.

Mr. W. T. Stead has been bitten in a new place this week. An acquaintance of his, at one time a besotted drunkard, but now as sober as a judge, has got a remedy for alcoholism of such wonderful efficacy that " it not only destroys the craving for drink, but sets up in the patient such a loathing of the taste and smell of alcohol that if, unawares, he should swallow a spoonful of jelly in the making of which sherry or brandy has been used, he becomes violently sick on the spot." Mr. Stead established his reputation as a medical adviser by his investigations into Mattei's cancer-cure, so it is not surprising that this new discovery should be introduced to the world under his auspices. He writes to the *Chronicle* asking to be provided with " half-a-dozen first-class drunkards " to experiment with. He wants them to be " confirmed, hopeless, gin-sodden dipsomaniacs—if possible, the sons or daughters of dipsomaniacs, in whose blood there is the hereditary taint of the alcohol crave." The worst cases will have the preference. If the jelly-sick stage is not reached in a month or two, judgment is to go against the discoverer of the remedy. Mr. Stead insists that applications should be made by letter, and not personally. " Life and work," he says, " would be impossible if Mowbray House became the Mecca of the dipsomaniac." We should have supposed that a few drunkards could hardly make much difference in the crowd of seers, soothsayers, spooks, and miracle-mongers which must already fill Mr. Stead's hospitable reception-saloons.

THE TRIUMPH OF HYPNOTISM.

The Paris correspondent of *Truth* tells the following curious story concerning the death of Professor Charcot. " Charcot," says Mrs. Crawford, " scouted the old Greek idea that divine light often enters through the chinks of cracked brains. I wonder what he would have said could he have foreseen that, on the morning on which he was found dead, two of his 'subjects,' agitated and weeping, came from opposite wards into the matron's room. They had had fearful dreams. *He* was dead, for they dreamed they saw him a corpse. The housekeeper had that moment had by telegram the first news of the event."

THE IRISH DENTAL DIPLOMA.

The Royal College of Surgeons in Ireland has disturbed the equanimity of the high-toned persons who constitute the British Dental Association representative board by ceasing to require from candidates for their dental diploma evidence that they have served three years with a registered dentist. The General Medical Council was moved in the matter, because in the regulations it has a requirement to that effect, and in response the College has informed the Council that

"the College entertains the opinion that, inasmuch as it requires from dental candidates 'two years' practice of a dental hospital recognised by the College,' and 'at least forty-five months' (occupied) 'in acquiring a knowledge of dentistry,' it has made due provision for the practical study of the profession; and it is furthermore of opinion that a thorough practical examination in dental mechanics and dental metallurgy (to which all candidates are subjected) is a more reliable test of competency than a certificate of apprenticeship to a dentist, respecting whose competency to teach and opportunities for teaching the College can have little certain knowledge"; but "recognising that such facilities for the routine practice of dentistry as might be afforded by apprenticeship would be useful, the College has recommended candidates 'to devote at least three years to acquiring a practical knowledge of dentistry under the instruction of a registered dentist.'"

After this extremely " pat " reply, in which the College had the best of the law on the matter, the Council could do nothing except record the correspondence in their minutes. Nevertheless, the Dental Association is again to memorialise the Council.

THE TYPHOID EPIDEMIC AT WORTHING.

Mr. W. Frost, of the Bridge Pharmacy, Worthing, has asked us to mention in The Chemist and Druggist the sick-poor fund, which the Mayor of Worthing is raising to alleviate the sad distress which has overtaken that town in the terribly severe typhoid epidemic with which it has been

stricken. Over a thousand cases have occurred there since May last, and it is estimated that 500 are still under treatment. A large proportion of these cases have afflicted poor families, and the fund which is being raised is most urgently needed. The Committee have thought that some aid might be willingly furnished by the wholesale houses who supply Worthing, and Mr. Frost has been deputed to invite assistance from the drug-trade. Very pathetic accounts of the widespread desolation which has resulted have been sent to us, and we shall be glad to hear that druggists have done their share in contributing such relief as money can supply.

SALACETOL.

This is one of the latest remedies, and is the short name for acetol salicylic ester, which has been patented in Germany by Dr. P. Fritsch. According to the *Phar. Zeit.* it is made by heating monochloracetone with sodium salicylate, when $C_6H_5.COOCH_2.COCH_3.OH$ is produced, and can be obtained by crystallisation from alcohol in light glistening needles, also from ligroin in scales. Its other physical and chemical characteristics are: m.p. 71° C., taste slightly bitter, shaken with water it gives a filtrate which is coloured violet by the addition of ferric chloride, and with caustic soda it is saponified so that from the alkaline solution salicylic acid is precipitated on neutralisation. Salacetol promises to be very useful in the treatment of diarrhœa, especially that of a choleraic type, or that which is due to any fermentative change. It is given in 30-grain doses, or even more, once a day, preferably in the morning along with a tablespoonful of castor oil. Salacetol is made by Hofmann & Schoetensack's successors.

HODGKINS FUND PRIZES.

Those who know something about the atmosphere, and who desire to try for a few thousand dollars in prizes, should write to Mr. S. P. Langley, the Secretary of the Smithsonian Institute, Washington, U.S.A., for a copy of the "Circular concerning the Hodgkins Fund prizes." On July 1, 1894, the following prizes are to be given:—$10,000, for a new discovery in relation to the atmosphere; $2,000, for an essay on the properties of the atmosphere considered in their relations to research; and $1,000, for a popular treatise on atmospheric air. The treatises may be written in English, French, German, or Italian, and, as such plums are rare, a few English chemists should see to it that some of the dollars come to the old country. The discoveries or applications proper, to be brought to the consideration of the Committee of Award, may be in the field of any science or any art without restriction, provided only that they have to do with "the nature and properties of atmospheric air in connection with the welfare of man."

C. & D. Recipes.

Tic-pills.

Morphiæ acet.	gr. vj.
Cinchonidine	gr. 96
Ext. hyosc.	gr. 100
Pil. rhei co.	gr. 100

Div. in pil. 96.

Cough-mixture.

Chlorodyni	ʒij.
Tr. ferri perch.	ʒij.
Ac. sulph. dil.	ʒij.
Syrupi ad	℥iij.

Dose: A teaspoonful.

Ebor Polish.

Cera flav.	8 oz.
Terebinth.	Winch. qt.
Hyd. bisulph.	℥j.

Camomile Pills.

Ext. anthem.	ʒj.
Pil. coloc. co.	ʒij.
P. rhei	ʒij.
Ol. anthem.	♏viij.

Div. in iv. gr. pill.

Foot-rot Liquid.

Cupri acet.	1 lb.
Aq.	2 „
Acid. acetic. glacial.	2 „

Rheumatic and Gout Mixture.

Salicin	ʒij.
Pot. iodidi	℥ij.
Tr. colch.	♏80
Pot. bicarb.	gr. 160
Aq. chlorof. ad	℥v.

Sig.: ʒss. t.d.s.

Camphor ball.

Spermaceti	℥iv.
Cera alb.	℥j.
Zinci ox.	ʒss.
Camphor.	ʒiss.
Ol. nucis	℥iv.
Glycerini	ʒij.

Tamarind Cough-mixture.

Syr. rhœad.	lb. iss.
„ scillæ	lb. iss.
Ac. sulph. dil.	ʒiss.
Tr. camph. co.	ʒij.
Ol. amygd. ess.	ʒj.
Morph. acet.	gr. 18
Vin. antim. tart.	ʒij.
Aq.	℥vj.

M.

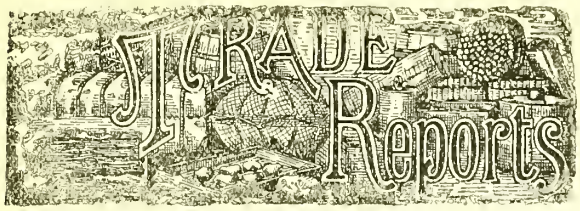
DEED OF ARRANGEMENT.

The following deed of arrangement with creditors has been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1887. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision in the Act making any of these arrangements binding upon dissenting creditors.

Aves, Arthur Kerner, 49 Castle Gate, Newark, chemist and druggist, Trustee, Thomas Leman, 1 St. Peter's Church Walk, Nottingham, chartered accountant. Dated, August 11; filed, August 17; unsecured liabilities, 764*l.*; estimated net assets, 250*l.*; creditors fully secured, 45*l.* The following are scheduled as creditors:—

	£	s.	d.
Anglo-American Bag Company, Hull	21	8	4
Aves, Owen, Mansfield	400	0	0
Carnall, M., & Son, Leicester	13	18	6
Hawley, R. R., Hull	14	11	1
Lawrence & Son, Hull	36	0	7
Lewis Berger & Sons, London	13	16	4
Mitcham Varnish Company, Mitcham	20	15	0
Newbourn, F., & Son, London	10	10	4
Parker, A., Mansfield	10	0	0
Pegg & Co., Derby	14	5	6
Sheffield Varnish Company, Sheffield	33	10	10
Stony, Whitty & Co., Hull	19	13	1
Tudor, S., & Son, Hull	10	1	4

According to Reed, 10 to 30 drops of fluid extract of cimicifuga after meals cures seminal emissions.



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

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42 CANNON STREET, E.C., *August* 24.

Acid (Citric) keeps very firm, English brands at 1*s.* 6½*d.* per lb.; juice offers at 19*l.* 5*s.* f.o.b. for immediate delivery, and at 16*l.* 15*s.* f.o.b. for forward delivery.

Acid (Tartaric).—The price of this article, as well as of others connected with viticulture, is gradually receding, mainly on account of the excellent wine harvest prospects throughout Europe. Foreign brands of tartaric acid are being offered at 10¾*d.* per lb. c.i.f. terms to the end of the year. On the spot 11*d.* to 11¾*d.* per lb. is asked according to brand and quality.

Alcohol.—The German potato-spirit market has given way a good deal, fine brands being now offered at 8·7*d.* per gallon, c.i.f., in bond, naked, for 2,000-gallon contracts.

Bleaching-powder, along with many other articles of its class, has advanced in consequence of the coal strike. In London 9*l.* 10*s.* to 9*l.* 15*s.* is now asked. The Liverpool prices are 8*l.* 10*s.* f.o.b. for soft wood, 8*l.* 15*s.* f.o.b. for hard wood casks. The Tyne quotation is 8*l.* 10*s.* to 8*l.* 15*s.* f.o.b.

Camphor (Crude).—A parcel of 100 cases sea-damaged *China* camphor, salvage from the *Radnorshire*, sold by auction this week at 109*s.* per cwt.

Canary-seed.—Lower prices have been accepted lately, and at these a good deal of business has been transacted. For Bombay seed 40*s.* per 464 lbs. has been accepted by sellers. At the spice auctions 255 bags old *Turkish* seed sold cheaply, without reserve, at 38*s.*, and 319 bags *Barbary* at 37*s.* per 464 lbs.

Caraway-seed.—A small quantity of Dutch seed sold without reserve, at 27*s.* 6*d.* per cwt. at auction.

Chamomiles.—Fine new *Belgian* flowers are selling at 72*s.* 6*d.* per cwt.

Cloves.—Lower, with sales of fair Zanzibar on the spot at 2⅝*d.* per lb. At auction 240 bales were forced off without reserve at 2 9/16*d.* to 2¾*d.* per lb. for medium dark to good fair. For delivery prices are lower, but there has been a fair demand at the reduced quotations, and we hear of sales of 1,250 bales at 2 11/16*d.* down to 2⅝*d.* per lb.

Cinchona.—The periodical bark-auctions which took place on August 22 were of very slight importance, and included no other varieties than East Indian and Ceylon barks, mostly of very poor quality. Of the nine catalogues printed one was wholly and another partly withdrawn, the remainder comprising:—

	Packages		Packages	
Ceylon cinchona	431	of which	316	were sold
East Indian cinchona	922	„	724	„
	1,353		1,040	

There was very little competition, one of the principal German factories abstaining altogether from bidding. The prices obtained, though exceedingly low, hardly show a quotable change, but the tendency is still downwards. The highest price realised for manufacturing bark was 3½*d.* per lb., and on several lots the hammer fell at 1*d.*, or even ⅞*d.*, per lb. The unit remains from ⅝*d.* to ¾*d.* per lb. The following are the approximate quantities purchased by the principal buyers:—

	Lbs.
Agents for the American and Italian works	76,257
„ Auerbach works	64,075
„ Paris works	33,245
Messrs. Howards & Sons	24,840
Agents for the Brunswick works	22,642
„ Frankfort o/M. and Stuttgart works ..	11,655
Sundry druggists	38,497
Total quantity of bark sold	271,211
Bought in	43,839
Total quantity offered	315,050

It should be well understood that the weight of bark bought gives no indication of the quantity of quinine sulphate represented by the purchase. The following prices were paid for sound bark:—

Ceylon Cinchona.—*Original*—Red varieties: Ordinary woody to good bright branch and stem chips, 1*d.* to 1¾*d.* per lb.; root, 1¾*d.* per lb. Grey varieties: low woody to fair bright quilly stem and branch chips, 1*d.* to 1⅞*d.* per lb.; dusty root, 1*d.* per lb. Yellow: Bright stem chips, 3*d.* per lb. Hybrid chips, 1¼*d.* to 1½*d.* per lb. *Renewed*—Dull to fair red stem and branch chips, 1⅛*d.* to 1⅝*d.* per lb. Fair grey shavings, 2¼*d.*; ordinary dusty to good bright stem and branch chips, 1¼*d.* to 2½*d* per lb. Hybrid chips, 1½*d.* to 2¾*d.* per lb.

East Indian Cinchona.—*Original*—Red varieties: Ordinary woody and dusty to fair bright chips, ¾*d.* to 1¼*d.*; dull spokeshavings, 1*d.*; dusty root, 1½*d.*; fair druggists' quill, 2¾*d.* per lb. Grey varieties: Ordinary dusty and woody to good bright stem and branch chips, 1*d.* to 3*d.* per lb.; fair to bright druggists' quill, 3½*d.* to 4*d.* per lb. Yellow varieties: Ordinary woody to good bright branch and stem chips, 1¾*d.* to 3½*d.*; good bright root, 2½*d.* to 2¾*d.*; spokeshavings, 1¾*d.* per lb. Hybrid chips, 1¼*d.* per lb. *Renewed*—Red dull to fair stem and branch chips, ¾*d.* to 1⅝*d.* per lb.

The detailed figures relating to the exports of cinchona from Java during the season which closed on June 30 last, have just been received. They show the following result:—

Season	Govt. Plant. Amsterdm. lbs.	Private Plant. Amsterdm. lbs.	Total Amsterdm. lbs.
July 1, 1892–June 30, 1893	645,124	7,309,966	7,955,090
„ 1891 „ 1892	605,792	7,181,075	7,786,867
„ 1890 „ 1891	553,255	6,323,561	6,876,816
„ 1889 „ 1890	541,431	4,579,787	5,121,268
„ 1888 „ 1889	815,506	3,599,525	4,415,031

Coal-tar Products.—*Sulphate of Ammonia* has advanced, London 24 per cent. grey is quoted at 14*l.* 17*s.* 6*d.* to 15*l.*; Hull and Leith, 15*l.* to 15*l.* 5*s.*; October–March, 13*l.* 10*s.*; Beckton is nominal; *Benzole* is also higher, at 1*s.* 5*d.* to 1*s.* 5½*d.* for both 60 per cent. and 90 per cent. *Gas tar*, 8*s.* f.o.b.; *pitch*, 24*s.* f.o.b. *Solvent naphtha*, 1*s.* 1*d.* *Crude naphtha*, 30 per cent., 7½*d.* *Toluol*, 1*s.* 5*d.* *Creasote*, 1½*d.*; salts, 17*s.* 6*d.* *Carbolic acid*, crude, 60 per cent., 1*s.* 6*d.* to 1*s.* 7*d.*; 75 per cent., 1*s.* 10*d.* to 1*s.* 10½*d.*; crystals, 39–40, 6½*d.* to 6¾*d.*; 34–35, 5½*d.* to 5⅝*d.*; cresylic, 95 per cent., 1*s.* 6*d.* to 1*s.* 7*d.* *Anthracene*, 30 A, 1*s.* to 1*s.* 1*d.*, and B, 9½*d.*

Cream of Tartar is lower. Best white French crystals are being offered at 67*s.* 6*d.* per cwt. f.o.b. Bordeaux, which is equivalent to 71*s.* 6*d.* to 72*s.* per cwt., London terms. Powder, 75*s.* per cwt.

Cubebs.—The exports of cubebs from Java during the last five years (seasons from July 1 to June 30) have been: 1892–3, 3,244 piculs; 1891–2, 2,207 piculs; 1890–1, 1,378 piculs; 1889–90, 1,353 piculs; 1888–9, 883 piculs.

Ergot of Rye.—The first arrivals of the new Spanish ergot have taken place. Thirty packages came from Vigo by the *Trent* this week. German is dull of sale at 1*s.* 4½*d.* to 1*s.* 5*d.* per lb., c.i.f., or 1*s.* 6*d.* landed here.

Ginger.—*Jamaica* root is in good demand: at auction rather better prices were obtained for it, mouldy to good

common Rhatoon bringing 62*s.* to 69*s.*; brownish to medium ditto, 71*s.* to 75*s.* per cwt. *Cochin* ginger is rather neglected, only 95 bags small and medium washed rough selling at auction at 59*s.* to 60*s.* per cwt.

Gum Acacia.—*Soudan* gums are being pressed for sale, and at to-day's auctions prices fell about 7*s.* 6*d.* per cwt., fair clean partly hard sorts selling at 44*s.* to 45*s.*, good soft at 53*s.* per cwt. Fine frosted *Australian* is 2*s.* easier, at 31*s.* per cwt., other varieties neglected. East Indian gums neglected, and generally 3*s.* to 5*s.* lower, excepting fine Ghatti, which is scarce. *Cape* gums are very slow.

Gum Mastich.—Fine pale drop is selling slowly at 2*s.* 3*d.* per lb.

Indigo.—Reports from Calcutta state that the indigo season in Bengal has been an exceedingly bad one, heavy floods during the period of manufacture having prevented the makers from preparing even as little as they manufactured last season. The factories are now closed. In Behar the weather has also been unfavourable.

Lithia Salts have again been reduced in price. *Carbonate* may now be had at 7*s.* to 7*s.* 6*d.* per lb.

Opium.—The London market remains stagnant at the recent quotations of 13*s.* to 14*s.* per lb. for good to fine *soft shipping;* 11*s.* 6*d.* to 12*s.* 6*d.* for good to fine *Smyrna;* 10*s.* to 11*s.* for *druggists' seconds;* and 9*s.* to 12*s.* per lb. for *Persian.* The news from the Turkish ports, as will be seen from our reports below, remains rather alarmist. Our Smyrna correspondent writes under date of August 11:—"Since writing you on August 4, about 35 cases opium have been sold here: old selected tale quale at 10*s.* 3*d.* per lb. f.o.b., and new opium to be kept for the Dutch Government at the equivalent of 11*s.* 8*d.* including loss in weight. Soon after these purchases were effected, our sellers asked for an advance of 4*d.* per lb., but purchasers refused to operate at the advanced figure. Still they will have to pay this price later on, as our present prices are too low for our small crop, and more or less reduced stocks. Our large dealers will not even accept 11*s.*, as they have no orders to sell from the growers in the interior. All the opium sold this week was from needy holders, and speculators who must create funds to meet the demands of their correspondents in the producing districts. Writing from Constantinople on August 14, a correspondent says:—"The market here continues steady at last quotations; but only speculators are buyers. The new crop can scarcely exceed 2,300c., according to calculation below:—

Koniah, Karahissar, and Acksheir	1,000
Salonica	300
Malatia	250
Zille and Tokat grades..	150
Constantinople (Yerli)	400
Smyrna	200
	2,300

Information gathered from all sources goes far towards confirming this estimate. With such a short crop, small stocks of old gum, and, in fact, every circumstance favorable to the rise, prices can scarcely continue at their present level much longer. Financial crises cannot curtail the consumption of the drug, and as soon as Europe and America show signs of buying, the natives, who are in an exceedingly good position this year, will not fail to seize the opportunity and push prices up. Arrivals of new opium continue at the rate of about one-seventh of last year's."

Otto of Rose.—There has been a very considerable improvement in the market lately, mainly, it is thought, on account of the speculative action of a large Constantinople house, which has driven up the price continually of late. The quotation of the brand which usually regulates the market has not yet been fixed; other makers ask from 28*s.* to 32*s.* 6*d.* per oz. T.

Pepper.—The market keeps very firm, and in *Black* Singapore pepper business was reported a few days ago at the rate of $2\frac{29}{32}$*d.* per lb. for August-October shipment. *White* Penang is also firm, with spot sales at $3\frac{5}{8}$*d.* per lb. At Wednesday's auctions very little pepper was sold; a few lots *Black* Lampong realised $2\frac{3}{8}$*d.* to $2\frac{1}{5}$*d.*, fair to good Singapore brought $2\frac{3}{4}$*d.* to $2\frac{13}{16}$*d.*, ordinary Aleppy realised $2\frac{5}{8}$*d.* per lb. *White* Penang pepper has been sold privately on the spot at $3\frac{11}{16}$*d.* per lb.

Poppy-heads.—*Belgian* poppies are much dearer. At the beginning of the season the price was 13*s.* 6*d.* per 1,000, but since then, mainly owing to the almost total failure of the English crop, the quotation has advanced to 17*s.* 6*d.* per 1,000.

Potash Salts.—*Chlorate* is very firm at 9*d.* per lb. for immediate, and $8\frac{1}{2}$*d.* per lb. for early delivery—September is quoted at $8\frac{3}{8}$*d.*, October at $8\frac{1}{4}$*d.*, November-December at 8*d.* per lb. For delivery over 1894 it may be bought at $6\frac{3}{4}$*d.* per lb. Small *Permanganate* crystals are still 62*s.* 6*d.* per cwt. ex wharf. Best Montreal *Potashes* are quoted at 24*s.*, pearlashes at 43*s.* per cwt. British *Refined saltpetre* is held for 20*s.* 9*d.* to 21*s.* 9*d.*, according to packing, German at 3*d.* to 6*d.* per cwt. less. Foreign *Bromide* offers at 1*s.* $5\frac{1}{2}$*d.* per lb. *Bichromate*, $4\frac{5}{8}$*d.*; British yellow *Prussiate*, $8\frac{3}{8}$*d* to $8\frac{1}{2}$*d.* per lb. Ordinary to refined *Nitrate* is held for 8*s.* $10\frac{1}{2}$*d.* to 9*s.* 3*d.* per cwt.

Quicksilver was raised 2*s.* 6*d.* by the importers to-day. Their price is now 6*l.* 7*s.* 6*d.* per bottle.

Quinine.—An exceedingly dull market. Nominally there are sellers of second-hand German brands at $8\frac{7}{8}$*d.*, and buyers at $8\frac{3}{4}$*d.* per oz.; but we are informed that for a 1,000-oz. lot 9*d.* per oz. has been paid.

Scammony-root.—Small sales are reported at 35*s.* per cwt.

Senega.—Some holders have made a reduction in their quotations; one firm now ask 2*s.* for good bright root, which they previously priced at 2*s.* 3*d.* per lb.

Senna.—Two consignments, together 170 bags, of Tinevelly leaves arrived from Bombay by the *Carthage* this week.

Shellac.—Last week the spot market closed with a fair demand at full prices, orange TN selling at 109*s.* to 112*s.* per cwt. for livery to fair. The future market, however, was lower, and some 500 cases sold for October delivery at 114*s.* per cwt. At the drysaltery auctions on Tuesday 563 cases were offered, 323 of which sold with a very brisk demand at fully the previous sale's prices, while button lac was about 2*s.* 6*d.* dearer. *Second orange* realised 112*s.* 6*d.* to 115*s.* for fair to good bright reddish unworked; and at 107*s*, 6*d.* to 110*s.* for ordinary to reddish livery ditto. *Button* lac, resinous and blocky seconds, unworked, realised 122*s.* 6*d.* to 117*s.* 6*d.* per cwt. After the auctions a considerable portion of the orange lac which had been bought in found purchasers at firm prices. The improved tone of the spot market is said to be mainly due to favourable reports from Calcutta. The speculative market is quiet, sales have been made below the current rates by parties anxious to depress the position for October delivery, and 114*s.* has been the sale price of at least one parcel in that position. Since then, however, the quotation has again reached 115*s.* per cwt.

Soda Salts.—Several soda preparations have advanced in price, in consequence of the rise in raw material occasioned by the coal strike. *Crystals* have been raised to 62*s.* 6*d.* by the London makers, and are held for 65*s.* ex ship. On the Tyne, 57*s.* 6*d.* f.o.b. is the price, with a reduction of 2*s.* 6*d.* on Russian export orders. *Caustic*: 70 per cent. is worth 10*l.* 5*s.* In Liverpool the prices are 10*l.* for 70 per cent. (10*s.* less for French and German export orders), and 9*l.* for 60 per cent. On the Tyne, 76 per cent. is held for 11*l.* 5*s.* per ton. *Bicarbonate* has been raised 5*s.*, 7*l.* 10*s.* per ton being now wanted for kegs ex warehouse London; 6*l.* 10*s.* for casks, and 7*l.* for kegs f.o.b. Liverpool. *Bichromate of soda*, $3\frac{3}{4}$*d.* per lb.

Sulphate of Copper is worth 15*l.* f.o.b. Liverpool.

Sulphur.—Foreign flowers are quoted at 6*l.* 15*s.*, and roll at 6*l.* to 6*l.* 5*s.* per ton. On the Tyne, 85*s.* f.o.b. is asked for recovered sulphur; best thirds are quoted 68*s.* 6*d.* c.i.f. terms.

Tea.—The *China* market is again lower for commonest sorts, and low-leaf Kaisow has changed hands at $5\frac{3}{8}$*d.* Inquiry is small for better grades, and sales are in most cases very retail in quantity. *Indians* are weak, and down to 6*d.* for fair sweet-leaf tea, while common broken and leaf have been done at $5\frac{1}{2}$*d.* and $5\frac{3}{4}$*d.* respectively. Some last season's

leaf and broken teas have been forced off in auction at very heavy discount. Tuesday's *Ceylon* sale went rather irregularly, but easier on the whole, except for fine thick liquoring teas, which were distinctly dearer, and wanted.

Turmeric.—A quiet market. At auction 39 bags fair bright split *Cochin* bulbs sold at 8*s.* 9*d.* per cwt.

Wax (Carnauba).—The market has altogether subsided into quiescence. Fair yellow to fine pale wax is now worth, nominally, 60*s.* to 65*s.* per cwt.; dark and mixed kinds, 40*s.* to 50*s.* per cwt.

THE LIVERPOOL MARKET.

Calabar Beans.—Seventeen bags sound found a buyer at $1\frac{5}{8}$*d.* per lb., a slight advance.

Cream of Tartar.—Flat, and value now 74*s.* to 75*s.*

Guinea Grains.—Holders are asking 19*s.* 6*d.* for good bright seed.

Gum Acacia.—A steady business in passing at 45*s.* for hard amber to 60*s.* for fine London sorts.

Oil (Castor).—The market remains steady, and although there is an absence of demand, holders are showing no weakness. Good seconds *Calcutta* $2\frac{3}{8}$*d.* First pressure *French* $2\frac{9}{16}$*d.* to $2\frac{5}{8}$*d.* per lb.

Wax (Bees').—A steady tone pervades the market, and 9 packages yellow *Chilian* (genuine) realised 7*l.* 12*s.* 6*d.* *African* (Gambia) is firmly held.

THE DUTCH MARKET.

Amsterdam, August 22.

All the analyses for the cinchona-bark sales on August 31 have been completed now. The manufacturing-bark contains 25 tons of sulphate of quinine, or 4·75 per cent. on the average. About 4 tons contain 1 to 2 per cent.: 54 tons 2 to 3 per cent.; 108 tons 3 to 4 per cent.; 135 tons 4 to 5 per cent.; 125 tons 5 to 6 per cent.; 59 tons 6 to 7 per cent.; 27 tons 7 to 8 per cent.; 3 tons 8 to 9 per cent.; 3 tons 9 to 10 per cent.; 1 ton contains 10 to 11 per cent.; and 1 ton 12 to 13 per cent. sulphate of quinine.

Indian Army Apothecaries.—It is an error to suppose that the apothecaries of the Indian army are dispensers. Every member of the service must go through a four-years' medical curriculum in medicine, surgery, and midwifery, and pass examinations not far inferior to those recognised by the General Medical Council.

Caustic Soda.—The composition of the 60° and 70° article is about as follows:—

—	60°	70°
	Per cent.	Per cent.
Caustic soda	72	85
Carbonate of soda	2	4
Chloride of soda	19	6
Sulphate of soda	5	5

Ganja and Charas, Dr. Watt says, can be produced only from the cultivated plant. The Excise Act provides that licensed persons may cultivate the plant, prepare the narcotics, and retail these to the consumer. The right to vend is sold by public auction, a person purchasing thereby the sole right for one year to all or so many of the shops in a district. Any person, other than a licensed dealer, having in his possession more than a very small quantity at one time is liable to prosecution and fine. This system of farming the wholesale and retail shops exists all over India, Madras being an exception to the rule, since in South India no revenue whatever is credited to Government from these drugs.

TRADE-MARKS APPLIED FOR.

Any person who has good grounds of objection to the registration of any of the following marks should *at once* communicate with Sir Reader Lack, Comptroller-General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C.

(*From the "Trade Marks Journal," August* 16, 1893.)

"Demotic," and design of man with bird's head, carrying bucket in one hand and oil-bottle in the other; for a veterinary preparation. By W. Cox, trading as Demotic Cattle-oil Manufacturers, 14 Weelsby Street, Great Grimsby. The essential particular is the device. 173,489.

"Coryl"; for an anæsthetic. By E. Guilmeth, 31 Rue de l'Eveque, Brussels. 172,754.

"Sampson's Passmon"; for a liniment. By W. J. Sampson, 11 Wilton Crescent Mews, S.W. The essential particular is the word "Passmon." 172,899.

"Digene"; for medicinal preparations. By S. Morris, 148 Clare Road, Cardiff. 173,562.

"Citonia"; for eye-lotion. By the Citonia Company, 18 Girdler's Road, West Kensington, S.W. 174,009.

Sketch of Newbyres Tower, and wording on label; for aërated waters. By G. Christie, Gorebridge, Midlothian. The essential particular is the device of the Tower. 173,145.

Signature across shield: for mineral and aërated waters. By Josiah Russell & Co., 165 Buckingham Palace Road, S.W. 173,320.

"Zaedo"; for perfumery and similar preparations. By W. F. Aldridge, 83 Flaxman Road, Camberwell, London. 173,927.

(*From the "Trade Marks Journal," August* 23, 1893.)

"Komos"; for chemical substances used for veterinary, sanitary, and other purposes. By Day & Sons, Crewe. 174,060.

"S. H. Soper," as signature; for oils for use in medicine and pharmacy. By S. H. Soper, 80 North Street, Brighton, Sussex. 173,908.

"Trident," and device of that instrument; for mineral and aërated waters. By A. MacDougall, Bonhill, Dumbarton. 173,394.

"The Johannis Company, Limited," and circular device; for mineral and aërated waters. By the Johannis Company (Limited), 25 Regent Street, London. 173,922.

"Vinolia," "Lypsyl," "Marequil," and "Jequilla," on circular design; for perfumery and toilet articles, &c. By Blondeau et Cie., Ryland Road, London, N.W. The essential particulars are the above-named words 172,725.

"Gypta," a tub of water and crocodile holding tooth-brush, and sphinx and pyramid in background, and wording; for tooth-powder and paste. By W. J. Williams, trading as J. Williams & Co., Park Hall Buildings, Cardiff. The essential particular is the device. 173,777.

"Merriman & Company," as signature; for toilet and perfumed soaps. By W. P. Meagher and J. Kennedy, trading as Merriman & Co., Kay Street, Preston, Lancashire. 174,017.

Parker, Stearns & Sutton is the name of a company which has just been incorporated to manufacture rubber goods and druggists' supplies in New York City. The capital is $450,000; and the directors are Russell Parker, James H. Stearns, and B. Franklin Sutton.

Dentist: "Will you take gas, sir?" Patient: "I think I'd better." Dentist (to assistant): "Henry, make out a life and accident policy for this gentleman—no extra charge, sir—you see, competition is keen these days—what's the name, please?—and we have to offer extra inducements to hold our trade. All ready now, sir."

Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

CONFERENCE ECHOES.

President Corder's Chronology.

Sir,—Mr. Corder objects to the spelling of Gerard's name with a final "e." Considering the general uncertainty of spelling in those days, the matter is not of much consequence, but still, Gerarde seems to have spelt it so himself. Mr. Corder also connects our herbalist with "the Gerards of Isley." The writer of the notice of him in the "Dict. Nat. Biog." says "The Gerards of Ince," a well-known family.

Some of Mr. Corder's dates are rather puzzling. He says, for instance, that the "Grete Herbal" was published in 1516: should not this read "1526"? Turner's "Herbal" he dates 1568: it should be 1551. Lyte's translation of "Dodonœus" 1583: it should be 1578. By the way, the statement that "this same work" translated by Lyte from "Dodonœus" became, later on, the groundwork of Gerarde's book, is misleading. It was a later work by Dodonœus—the "Pemptodes," which Dr. Priest translated, and from which—or, rather, from the translation of which—Gerarde so dishonestly cribbed.

I am not quite sure that "collectors" would consider the edition of 1633 "the right edition" of Gerarde. Collectors usually value a book on account of its rarity, and the edition of 1597 appears to be much the rarer of the two. I have never seen but one copy offered for sale, the price of which was, unless my memory deceives me, 5*l.* 5*s.* Mr. Corder says "it is said" that this was published at the author's own risk. Johnson distinctly asserts that it was "printed at the charges of Mr. Norton."

I am, &c.,
Epworth, August 19. C. C. Bell.

Sir,—In your report of Mr. Corder's address at Nottingham, on page 278 of The Chemist and Druggist, there occurs the following singular statement. Speaking of the Bishop of Ely who was enjoined by Richard to send to Hatton Garden for strawberries, Mr. Corder is reported to have said, "This same Bishop of Ely was John de Kyrkeley, who in 1290," &c. As Richard III. died in 1485, and the scene in Shakespeare probably occurred in 1483, there is apparently an error of 200 years in the date of the bishop's will.

Faithfully yours,
Manchester, August 19. Fred. D. Crossley.

Liquid-belladonna Plaster.

Sir,—In your Editorial comments in your last week's issue on the paper bearing the above title, read by me at the Nottingham Meeting of Conference, you remark:—"Thus Mr. Naylor also makes a 2-in-1 fluid extract. . . . . But when the ether and other substances are added down goes half of the alkaloid." I desire it to be distinctly understood that I do not accept your statement, "down goes half of the alkaloid." So far as I am capable of arriving at a conclusion, no such inference appears to me deducible from the figures given in my paper.

38 Southwark Street, S.E., W. A. H. Naylor.
August 23.

["About half" was doubtless in the writer's mind. On diluting the extract with ether, the mixture should have contained 2·077 grains per oz., but, after decantation, Mr. Naylor found 1·534 grain—*i.e.*, only something between a fourth and a third of the alkaloid is precipitated.—Ed.]

Estimation of Diastasic Action.

Sir,—It would be impossible in this region of sand and sea, when I have no books or journals for reference, to reply fully to the remarks offered on my paper read at the recent meeting of Conference. I should like, in the first place, to say that I have not, in any proper sense of the words, "changed my mind" regarding the best process for estimating diastase. We are all compelled to accept certain received facts on authority. It is impossible for any one man to verify every part of every process he has to deal with. Granting certain generally-received assumptions to be facts, it would still be my opinion that the method of estimating diastase by the amount of maltose formed from starch is the best method. It may be quite true that by operating with excess of diastase on starch-paste at a given temperature for a sufficient time the starch yields dextrin and maltose according to a given equation. What I have endeavoured to show is that, by the action of diastase on an excess of starch-paste, for a limited time at a certain temperature, the proportion of maltose formed varies according to the manner in which the starch-solution has been prepared. If true, this is a most important point, which has not, so far as I am aware, been noticed before. The only criticism of any value on my paper must consist either of a confirmation or refutation of what I have said on this point. So far that has not been forthcoming. I believe the variation observed is due to the degree to which the starch has been hydrated in the process of so-called gelatinisation. I do not see that it can be a question of "homogeneity" of the solution. I did not refer to Mr. Grierson's paper—valuable as it is—because it contains nothing specially bearing on the point under discussion. I need hardly say that Mr. Grierson is not the author of the iodine process, nor would it be any great matter if he were, as it is the first method that would occur to any chemist's apprentice.

I would specially repudiate the statement, attributed to me, that the time required for malt extract to decompose its own weight of starch should be seventy minutes. Such statements have little meaning, unless the time and temperature are also given. My actual statement was that a good extract will convert five times its weight of starch into maltose and dextrin in half an hour at a temperature of 40° C. So far as I am aware, no writer on the subject has suggested a higher standard.

I am, Sir, yours very truly,
Carnoustie, N.B., Aug. 23. D. B. Dott.

Glycerine Extract of Thyroid.

Mr. T. W. Dunlop calls our attention to an error (resulting from a type "smash") in Mr. White's formula for the above, as printed on page 296 of last week's issue. It should be:—

Thyroid glands	6 (12 lobes)
Glycerine	½ fl. oz. or a sufficiency
Chloroform-water	½ " "

The lobes are rubbed down with one-fourth their weight of broken glass, and macerated with ½ oz. each of glycerine and chloroform-water for twenty-four hours. Expression through linen and adding the mixed menstruum up to 12 fl. oz. completes the process.

Twenty minims of this product are equivalent to one-sixth of a gland.

Putting it Mildly.

In publishing a brief note of the meeting of local secretaries, we stated that the report had been supplied to us by Mr. Thompson. And we added, "Our representative was refused admission to the meeting, on the ground that the presence of the Press was not desired."

Mr. Kemp, of Manchester, one of the promoters of the meeting, gracefully informs us that this statement was "(to put it mildly) a perversion of the truth," and he would be glad if we would correct the misapprehension. Then Mr. Kemp goes on to explain matters. "We thought it advisable," he says, "to encourage otherwise timid gentlemen to give expression to their views by declaring the meeting an informal one, without reporters." This seems to render unnecessary any other reply to Mr. Kemp's charge of a perver-

sion of the truth on our part. We may suggest that with such a weak case he might have "put it" still more mildly.

Cost of Visiting the Conference.

SIR,—I had been reading with much interest your account of the Conference meeting, and in a moment of weakness told my wife about it, including the ladies' visits to the lace-works, "Dukeries," &c. The result is, she wishes to go next year. Before I make a promise that I shall have to keep, would some visitor tell me what such a visit costs for two?

Yours truly,

August 22. PILLGARLIC. (104/34.)

Papain.

Mr. Frederick Davis, B.Sc., asks us to state that it was Mr. B. Kühn, of St. Mary-at-Hill, who supplied him with the specimens of papain and papaw-fruit on which the experiments recorded in his paper, read at the British Pharmaceutical Conference, were based.

Beeswax and its Adulterations.

SIR,—Chemists should, in their own interest, convey to the ironmongers in their district the information that they can definitely be prosecuted if they sell as "beeswax" any beeswax compound or impure article. Many ironmongers err in this way through sheer ignorance, but cera flava stands clearly in the British Pharmacopœia.

It is used in preparations for internal use (pilula phosphori, for instance) as well as for external ones, and a dealer selling as beeswax a compounded article, no matter for what purpose it be required, is liable to prosecution.

Yours truly,

Bristol, August 23. A. & J. WARREN.

Backbone (?) Wanted.

SIR,—I am afraid that our friend Mr. Fitch is one of the old school, and is trying to revive the good old times when chemists managed by great effort to exist on 11½*d.* profit out of every 1*s.* He says that since he abandoned the reduced-price system eight years ago he finds no difference—with which he seems pleased—in his return of profits to the income-tax assessor. Let me say that I have a business in a suburb of a large provincial town—Brighton, to wit—which is renowned for its cutting, and, finding that customers were getting into the habit of taking a 'bus into the town to make their purchases, leaving only the refuse and night-work for us outsiders, I decided to sell my goods at the prices quoted by the cutters in the town; and having a number of my own specialities, prepared according to good reliable formulæ, each bearing a handsome margin of profit, which I judiciously recommend, but never attempt—nor allow my assistant to attempt—to substitute for any advertised article, the result has been that customers now prefer coming to my shop, where they are always courteously received, for everything, instead of dividing their favours, and, what is infinitely more satisfactory to me, I find that my profits, instead of remaining *in statu quo*, have shown a substantial increase each successive year.

As regards the pills, such has been done from time immemorial by unscrupulous traders, but it cannot be for the sake of extra profit, as the pil. rufi are the only ones more costly than the others (*vide* Cox's or other makers' lists), and these are scarcely ever sold now. I should think it likely that the practice arose more from laziness rather than from any other cause.

Perhaps our friend also is unaware that chemists are, as they are pleased to style themselves, professional gentlemen, and, as such, take an intense dislike to anything in the way of unity. This I found out some time ago when canvassing members of our craft to try and bring about an early-closing movement—9 P.M. instead of 10 P.M.—therefore I greatly fear that the distinct signs of better times are somewhat imaginary.

In conclusion, kindly allow me to say that, in my humble opinion, it is "go," as it is called down south, not "backbone," that is wanted.

Yours very faithfully,

A GLYCERINE JUJUBE. (103/65.)

Pharmaceutical Novels.

SIR,—Has anyone mentioned Charles Reade's "Very Hard Cash" in this connection? He has an amusing bit about a chemist's apprentice, and a certain prescription sent to be dispensed. The said Charles Reade was very rough upon the medical profession and all their works, but no one was more addicted to dosing himself. I have taken, as an apprentice, dozens of bottles of medicine to him in his rooms at Magdalen College, Oxford.

Yours, &c.,

WILTS. (103/7.)

SIR,—In "A Modern Minister," the first of the Cheveley Novels which startled the literary world a dozen years ago, there is, if my memory serves me rightly, a pharmacist who plays a not unimportant part in the tale. I have always felt that this was a Brighton chemist of note, but have never been able to fix upon his personality.

When Tennyson spoke in a sneering way about the man who "stands behind his crimson lights," had he the pharmaceutical body as a whole in his mind's eye, or some unhappy individual only?

Yours truly,

PHAR. CHEM. (238/93.)

Amusez-vous, mes Enfants.

SIR,—In a recent number of THE CHEMIST AND DRUGGIST you spoke of the good luck which befel our *confrère* M. Minvielle in shooting a bear at Aspeigt, between the Valleys of Opau and Aspe, some little distance from the Citadelle of Castet, Castellum Ursalticum of the Romans (at present the property of Mr. Jarvis, the English chemist of Pau), from the upper towers of which bears are frequently seen crossing the glades of the Bages Forest to feed upon the wild strawberries which grow there in abundance, and of which they are exceedingly fond.

Another form of sport equally dangerous is boar-hunting on foot.

Early in July boars were seen in Pau Wood, and the peasants in the neighbourhood made formal complaints of the damage done by them to the crops.

A *battue* was organised by the Préfet of the Department, in which seven of us pharmaciens joined. We were posted at 3 A.M. with strict injunctions to keep quiet until a certain signal should be given. Chafed, chilled, and ravenous, we heard the signal, a rushing, and then the "ping" and thud of a rifle-bullet, and there before us lay an animal which weighed 225 lbs.—a formidable mischief-maker and crop-destroyer.

M. Dufourcq, pharmacien, of Salies, was the fortunate hunter, but he is an old hand, for during the 1870 war he was one of the Béarnais Franc-Tireurs, who were responsible for many a gap in the ranks of France's enemies.

After the assembly call and the usual congratulations, we sat down to a *déjeûner à la fourchette* which, for variety and quantity, would have satisfied Gargantua himself, and to which we did full justice, as became pharmaciens of the Basses Pyrénées, who are famed for frolic, fun, and feeding.

These qualities do not prevent the committee of the Departmental Society of Pharmaciens from looking sharply after the interests of the craft and interviewing M. Léon Say, the sitting member, anent the new Pharmacy Bill.

Pau. CHARLIE ST. VINCENT.

Another Cold-cream Formula.

SIR,—On looking over a number of formulæ from the *C. & D.*, I notice that you have what you term a "chronic eruption" of correspondence *re* cold cream. I hope you will pardon me if I trouble you with what I believe to be another new formula, but one which I find takes remarkably well. The perfume I leave entirely to the maker's sense of smell.

Ung. zinci	℥j. or q.s.
Paraff. molle alb.	℥xvj.
Perfume	q.s.

I am, yours truly,

August 23. F. S. R.

DISPENSING NOTES.

Correspondents should consult "The Art of Dispensing" in regard to dispensing difficulties. Difficulties not explained therein may be sent to the Editor, who invites a general expression of opinion upon the undermentioned topics.

Hydrochlorate of Quinine with Alkalies.

277/31. *S. H.* wishes to know how the following prescription ought to be dispensed:—

Pot. bicarb.	℥ij.
Quin. hydrochlor.	ʒss.
Ammon. carb...	gr. xxxvj.
Pot. iodidi	ʒj.
Aq. chlorof.	℥iv.
Aq. dest. ad	℥xij.

M.

Dissolve the quin. hydrochlor. in ℥vj. aq. dest.; to this add about ʒij. mucil. acaciæ, freshly prepared. Dissolve pot. iodid., ammon. carb., and pot. bicarb. in the aq. chlorof.; add this solution, with a brisk shake, to the quin. hydrochlor. solution, and make up to ℥xij. with aq. destill. Label "Shake the bottle."

For mixtures similar to the above you will find the "Art of Dispensing" invaluable.

A Mixture Deposits.

Sir,—You would greatly oblige by giving your opinion as to whether the following mixture should deposit on standing or not. A customer returned it the other day wishing to know the reason of the deposit. Our tinct. card. co. is made strictly B.P., with stoned raisins, not sultanas. The following is the mixture in question:—

Ammon. brom.	ʒj. ℈j.
„ carb.	℈ij.
Spt. chlorof.	ʒij.
Tr. card. co.	ʒvj.
Aq. m. pip. ad	℥viij.

The deposit was a dirty brown. Distilled aq. menth. pip. was used.

August 15. Raisins. (100/23.)

[Mixtures containing tr. cardam. co. are seldom free from deposit, especially when salts are present. The deposit may not be observable at first, but forms in the course of a day or two, and is composed mainly of pectinous and fatty matter derived from the aromatic ingredients of the tincture. It is advisable to filter such mixtures if the customer is fastidious.]

LEGAL QUERIES.

Immediate information on pharmaco-legal matters is available in "Pharmacy and Poison Laws of the United Kingdom," Alpe's "Handy-book of Medicine-stamp Duty," and The Chemists' and Druggists' Diary, *page 152 et seq.*

104/20. *One in Want.*—You should read "Pharmacy and Poison Laws of the United Kingdom," published at this office at 2*s.* 6*d.* (post free, 2*s.* 9*d.*), to get a clear idea of the position. The owner of the business whose name has to appear on the labels is the seller of the poisons, whether this be an individual or a company. If the individual be not qualified, he is liable to a penalty for keeping open shop. We do not know what is a syndicate company.

103/50. *Lincoln.*—Tincture of cannabis indica is not a scheduled poison, therefore its presence in a cough-mixture does not render such mixture liable to be labelled "Poison." We should not ourselves label a mixture "Poison" because it contained some spirit of chloroform, though it is possible to argue that the law requires it.

9/12. *M. P. S.*—It is not illegal for a limited liability company to describe themselves as chemists on their van, whether the shareholders composing the company are registered chemists or not.

105/33. *Rad. Rhei.*—Your name is not now on the register of chemists and druggists. If it ever was, you can get it restored by satisfying the Registrar (Mr. R. Bremridge, 17 Bloomsbury Square, London, W.C.) of your identity. If it never has been, you will have to make a declaration yourself, and get a medical practitioner or magistrate to make one also stating that to his knowledge you were in business as a chemist and druggist before August 1, 1868. Certain fees will have to be paid, but no annual subscription is required. It is legal for the executor of a chemist and druggist to carry on any business (including branches) which was carried on by the deceased chemist for whose estate he is acting, with the aid of a qualified assistant. But we do not think it would be legal for him to open a new business. You should study "The Pharmacy and Poison Laws of the United Kingdom" (2*s.* 6*d.*), in order to get acquainted with the interpretation of the statutes.

103/60. *J. McG.* writes:—"I applied to the overseer who publishes the Jury List claiming that my name be omitted from the Jury List, and quoting from the 30th section of the Dentists Act, which states that 'all registered dentists shall be exempt from serving on all juries and inquests whatsoever.' He called upon me, and very courteously explained that he had no power to omit my name, because in the precept there was no mention of dentists. Will you kindly state what I should do? Surely, if I am summoned I can plead the Act of Parliament."

[The overseer was quite right in retaining the name of a dentist on the Jury List. The Dentists Act, 1878, section 30, says: "Every person registered under this Act shall be exempt, *if he so desires*, from serving on all juries and inquests whatsoever." So that it is optional with a dentist whether he be exempt or not. The proper course for a dentist to take, if he does not wish to serve, is to write to the Under-Sheriff and ask him to omit his name from the jury-panel. He should write similar letters to the Registrar of the County Court and to the borough and county Coroners. If these officials decline to do this, the only course for the dentist to take is to attend when summoned, and claim his exemption from the Judge or other presiding officer. The precept referred to by the overseer is a document signed by the Clerk of the Peace, which is served on the overseer, requiring him to return a list of persons liable to serve on juries. A form of this precept is contained in the schedule to the Juries Act, 1862, and there is no mention of dentists therein, although registered pharmaceutical chemists are referred to as being exempt.]

104/33. *J. A. R.* asks if an agreement drawn up between a manager or assistant and a chemist who employs him, and which, for the benefit of the employer, debars the assistant from starting in, or being in any way engaged in, the business of a chemist and druggist, within a given distance of the said employer's establishment, is legal and binding (1) where nothing is given beyond the weekly salary agreed upon for services rendered; (2) where, say, 10*l.* has been given, in addition to salary, as a consideration against the assistant's debarring himself from making a living in a certain district? [There is nothing to prevent a chemist restricting his assistant from competing with him so long as the restriction is reasonable as to time and distance. The weekly salary alone is quite sufficient consideration to support the agreement, and the additional bonus of 10*l.* is unnecessary. It is, however, very desirable to have agreements of this kind drawn up in proper legal phraseology, as the Courts lean very strongly against all agreements in restraint of trade, and will be very quick to find out and take advantage of any ambiguity in the language used.]

104/41. *Veritas* puts this case:—I sell a business, representing that a large profit is made, whereas there is none. The person takes the premises on lease, pays goodwill, &c.,

on the strength of the assertion. Can he recover the amount paid, and render the lease void, having proof that the statements were absolutely false? [Any contract induced by fraud or misrepresentation is voidable at the option of the person deceived. In this case the purchaser can either sue the vendor for damages only, or repudiate the contract altogether, and sue for damages in addition. We assume that the lease of the premises was taken from the vendor. If the lease was taken from a third person, who was not a party to the alleged misrepresentation, the purchaser cannot get rid of that, but will be entitled to claim heavier damages, in consequence of having the lease tied round his neck. There is always a great deal of hard swearing in these cases, and juries are very reluctant to convict a man of fraud or misrepresentation, unless there is very clear proof.]

MISCELLANEOUS INQUIRIES.

The Editor replies to queries of general interest, in the order in which they are received. Replies are inserted according to the space available. Postal answers cannot be supplied.

Back numbers, containing formulæ, educational or other specific information can be obtained from the Publisher.

92/21. *Dagmar.*—**Ammoniacal Solution of Oil of Lavender**, for smelling-bottles, is alcoholic solution of ammonia, to which a sufficiency of Mitcham oil of lavender is added. Or you may make it according to the following formula:—

Strong solution of ammonia	℥ss.
Absolute alcohol	℥j.
Oil of lavender	℥ss.
Otto of rose	♏iij.

Mix.

93/33. *W. H. K.*—Askinson's "Perfumery" is one of the best books on that subject. It is an American work, which you can obtain from E. & F. N. Spon, at 12*s.* 6*d.*

92/71. *Tafilete.*—**Polishing-cream for patent leather.**—Is the following what you want?—

Lamp-black	℥vj.
Indigo	℥j.
Treacle	℥iss.
Olive oil	℥j.
Rectified spirit	℥j.
Glacial acetic acid	℥j.
Mucilage of acacia	℥viij.

Reduce the lamp-black and indigo to very fine powder, and rub up with some mucilage to form a paste; then add the olive oil and the treacle, with the rest of the mucilage, and, finally, the spirit and acid, previously mixed.

96/5. *Beauty.*—In our issue of April 23, 1892, you will find several formulæ for face-powders.

96/3. *Ten Years' Subscriber.*—See reply to "Polish."

96/32. *J. H. W.*—The last edition of Attfield's "Chemistry" is the thirteenth. We are not aware of another being in preparation, but it matters little to a student whether his text-book is the last edition or not.

96/29. *Medical Student.*—If a candidate answer *fully* five out of seven questions in the Preliminary Examination he would pass in that subject.

96/64. *Aleph.*—On page 434 of our issue of March 25 there is a formula for a kidney-mixture based on an analysis of Warner's.—**Diabetes-cure.**—See *C. & D.*, March 14, 1891, page 388.

95/9. *Ebor* sends us three recipes for **Tic-mixtures**, and he wants our opinion as to whether they are compatible or not. We give the recipes in full, as they form the basis of useful criticism. Moreover, "Ebor" is one of those amiable men who give a *quid pro quo*—in this instance, half a dozen of good tried recipes, for which we find a place to-day:—

A.

Syr. croton chloral (2 grs. to ℥j.)	℥ij.
Tinct. gelsemii	℥ij.
„ quin. am.	℥iv.
Glycerini	℥iv.
Pot. iodidi	℈ij.
„ bromid.	℥j. ℈i.
Tr. cimicifugæ	℥j. ℈j.
Aq. chlorof. ad	℥iv.

M.

℥ss. 4 hrs.

B.

Quininæ sulph.	gr. xxiv.
Glycerini	℥iv.
Acid. sulph. dil.	q.s.
Tr. gelsemii	℥ij.
Pot. bromid.	℈iv.
„ iodidi	℈ij.
Tr. cimicifugæ	♏80
Aq. chloroformi ad	℥iv.

M.

℥ss. quartis horis.

C.

Ferri et quin. cit.	℈ij.
Mag. sulph.	℥iv.
Tinct. gelsemii	♏80
„ cimicifugæ	♏80
Pot. bromid.	℈iv.
Aq. chlorof. ad	℥iv.

M.

℥ss. quartis horis.

The first objection to the whole of these mixtures is that they are outrageously polypharmic, and they are all nasty-looking owing to the deposition from the tincture of cimicifuga. Therapeutically cimicifuga is of trifling value in tic, and is wholly unnecessary along with gelsemium. We, therefore, score that out of all the formulæ. Bromide and iodide of potassium are also of little value for the immediate relief of such nervine affections as tic, and they also may go, without consideration of the fact that the iodide is incompatible with soluble quinine salts. Mixture C is the best pharmaceutically, but the poorest therapeutically; A is bad pharmacy on account of the ammoniated tincture mainly, and B because of the precipitate of quinine iodide. A good mixture in all respects is the following:—

Quininæ sulphat.	gr. xxiv.
Acid. sulph. dil.	♏xxiv.
Tr. gelsemii	℥ij.
Tr. cardam. co.	℥ij.
Glycerini	℥vj.
Aq. ad	℥iv.

M.

Sig: A dessertspoonful every four hours until three doses are taken.

The maximum daily dose of tincture of gelsemium is ½ drachm. Syrup of croton chloral may take the place of the quinine; but it is waste of material to put both together. (2) The mixture of powders which you mention is deliquescent, and as soon as it absorbs water chemical change sets in. (3) Tolu-syrup residues make a useful cement for covering the necks of bottles. Also common resin with 10 per cent. of linseed oil added to it.

66/70. *Valenian.*—The Stas-Otto method of detecting poisons is the best. See "Attfield" or "Muter."

99/7. *Iolo*, and 104/60. *F. W.*—**Water-softening Powder.**—See *C. & D.*, January 21, page 95. Borax is of comparatively little use.

98/12. *Ajax.*—**Cloudy Ammonia.**—See *C. & D.*, March 25, page 434.

99/6. *Lanolin.*—Lanolin Pomade:—

Anhydrous lanolin	℥v.
Almond oil	℥i.
Oil of cinnamon	♏v.
Oil of neroli	♏iij.
Otto of rose	♏iij.

Melt the lanolin and oil together, and when nearly cold add the perfume.

Shaving-cream.—See *C. & D.*, November 12, 1892, page 726.

92/28. *Varnish.*—A clear mastic and sandarac varnish will suit the purpose. It must be fairly thick, and the talc should be applied while the varnish is still soft on the label. The article on the Atmosphere in Watts' "Dictionary" is very good.

97/17. *Sedox.*—(1) Taraxacum and Podophyllin Liver-mixture:—

Acid. nitromur. dil.	♈iss.
Tinct. nux. vom.	♏xl.
Tinct. podophylli	♈j.
Succ. taraxaci	℥iiss.
Inf. gentian. conc.	℥iss.
Aq. chloroformi ad	℥x.

Add the acid to the water, then the rest of the ingredients, previously mixed together; allow to stand for a day, and filter.

Dose: A tablespoonful at 12 A.M. and 4 P.M.

(2) "Phenol sodique" is used as an escharotic chiefly. (3) Indian Brandy is an alcoholic compound, which originally was a stomachic liqueur (rhubarb and sweet nitre, with syrup, &c.), but sometimes degenerates into a mere tipple. For that reason the Inland Revenue officers have instructions to look closely after the sale of the stuff, and if any is sold which is pleasant to taste and contains more than 3 per cent. of proof spirit, the seller is visited with all the powers of the law available for those who sell spirits without a licence. We do not suppose there is any merit in the spelling "brandee."

100/37. *Palm-leaf* does not send his name, but he will find that the information he requires has been recently published by us.

100/36. *L.*—White-lead is sometimes made with inferior stuff, the powder made by the old, or Dutch, process being the best. Natural baryta earths are sometimes used for mixing with it. To test it you must dissolve out the oil with methylated ether, and analyse the residue by the ordinary qualitative method.

101/28. *Gib.*—Gorham's "Manual of Tooth Extraction," published by H. R. Lewis at 1*s.* 6*d.*, is probably what you refer to.

95/17. *Varnish.*—Oak-stain in Oil.—In a mixture of equal parts of turpentine and boiled linseed oil dissolve sufficient Bismarck or other oil-soluble aniline brown to give the desired shade. White Venice Turpentine from the *Larix Europæa.*—You should have no difficulty in obtaining this from your wholesale house if you specify "colourless," which is what we suppose you mean by "white."

89/43. *Lithion Quelle.*—For composition of Red Metal-polish similar to sample sent, see page 401, March 18, 1893.

99/41. *D. W. D.*—Brewed Ginger-beer.—After straining the beer free from yeast, add to each gallon 20 grs. of salicylic acid dissolved in 2 drachms of rectified spirit. This keeps the beer admirably.

90/63. *Pigment.*—Manual on Paints and Colours.—Hurst's book (Griffin, 10*s.* 6*d.*) and the part of Spon's "Encyclopædia" on the same subject, which costs a shilling or two.

102/70. *Matric.*—You will find in our issue of September 17, 1892, page 449, the titles of books for the London University Matriculation Examination.

100/71. *Polish.*—The Polish for Tan-leather Shoes is simply a good and thickish furniture-cream, coloured with a sufficiency of Crawshaw's dark-brown dye dissolved in weak spirit. The polish, No. 5 (The Chemist and Druggist, January 23, 1893, page 116), will suit, or any other of the same nature.

101/22. *A. D. C.*—Red Billiard-ball.—Make a dilute nitric acid, 1 in 30, and in this steep the ball for twenty minutes; wash, and boil in a pint of water containing 100 grs. each of powdered cochineal and stannous chloride; after half an hour, add a few grains of tartaric acid, and boil ten minutes longer. When cold, polish with oil or furniture-polish.

101/59. *Clarke.*—Electrogene Charges.—See January 7, 1893, page 30.

101/11. *Ess. Zingib. Fort.*—Essence of Kola for Syrup.—Try the following:—

Liquid extract of kola	℥iv.
Essence of vanilla	℥ss.
" cinnamon (1 in 20)	℥ss.
Aromatic spirit of ammonia	℥ss.
Caramel	℥iij. or q.s.
Liquid cochineal	℥ss.
Salicylic acid	℥ij.
Rose-water to	℥xij.

Dissolve the salicylic acid in the two essences, and add to the kola extract previously mixed with the sal volatile; then add the rest of the ingredients, set aside for a week, and decant.

If you require a warm essence, put in an ounce of soluble essence of ginger instead of the essence of cinnamon. Use 6 drachms of the essence for each pint of syrup.

101/41. *A. M.*—(1) It is impossible for us to prescribe for the dark-skinned lady who has white blotches on her skin. (2) A liberal application of turpentine by means of a spray to the haunt of the spiders is likely to get rid of them.

103/39. *Country* asks:—"What is the Cement used by Pipe-repairers for silver mounts and amber mouthpieces?" We think this is thin gelatine or isinglass cement mixed with fine zinc-white. Does any subscriber have specific knowledge of the matter?

INFORMATION SUPPLIED.

94/45. In your answer to this question you say: "Remove all the dead pulp." This embraces the whole difficulty. If you were quite sure you had removed *all* the septic material success is almost certain with the treatment you advise, but in a large percentage of cases this is impossible. Chronic abscess accompanied by a pus-discharging sinus is much more easily cured than without.

Frederick Lownds, L.R.C.P., L.D.S.Eng.

INFORMATION WANTED.

The Editor invites, on behalf of inquiring subscribers, post-card replies to the following:—

99/93. What is Limonia Naudier?

19/93. Maker of Walker's Meat-preserver (an American preparation).

102/23. Makers of Karswood Rubber-silk.

101/30. What is the solution used for charging Harness's constant-current medical battery?

96/64. Paranaphthalene: where obtainable?

20 HIGHEST AWARDS. 20

Pears' Soap

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NEW YORK:—365 and 367 Canal Street, NEW YORK.
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LONDON, 1851; LONDON, 1862; PARIS, 1867;
SANTIAGO, 1875; PHILADELPHIA, 1876; PARIS, 1878;
SYDNEY, 1879; BRIGHTON, 1881; BOSTON, 1883;
ADELAIDE, 1887; MELBOURNE, 1888; PARIS, 1889;
EDINBURGH, 1890; ROYAL MILITARY, LONDON, 1890;
&c., &c., &c., &c., &c.

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„ Rhæi Co., P.B.	6*d.*	4/3
APERIENT. 105 (*Each Pill contains ⅓ gr. of Calomel*)	6*d.*	4/3
106 As No. 105, with 1 gr. Calomel in each Pill	8*d.*	4/6
107 As No. 105, without Calomel	6*d.*	4/3
110 Hospital Pills, each containing ½ gr. of Calomel	6*d.*	4/6
ANTIBILIOUS.		
62 Hydrarg. Pil. gr. i.; Ext. Coloc. Co.; Pil. Rhei Co. aa. gr. ij.	1/-	8/6
262 Podophyllin gr. ss.; Ext. Coloc. Co. gr. ij.; Ext. Hyoscy. gr. i.	1/2	10/-
COUGH.		
164 Pulv. Ipecac. Co.; Pulv. Gum. Ammon. aa. gr. iss.; Pulv. Scillæ gr. i.; Saponis Hyspan. gr. ss.	7*d.*	5/-
167 Pulv. Ipecac.; Pulv. Scillæ aa. gr. ¾; Pulv. Capsici; Pulv. Opii aa. gr. ¼; Pulv. Gum. Ammon.; Ext. Conii aa. gr. i.	8*d.*	5/6
CASTOR OIL.		
289 Rhei Pulv.; Potass. Sulph. aa. gr. iss.; Pulv. Sapo. Hysp.; Ol. Ricini aa. gr. ss.; Ol. Crotonis gr. 1/18	8*d.*	4/-
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2/9 Ditto ditto	21/	4/6.. „ Mathey Cayins	35/	9/ ..Laville's Gout Tincture	81/	7/ .. „ Elixir Ferrug.	65/
2/9..Aubergier's Syrup	27/	4/6..Chassaing's Wine	39/	9/ .. „ „ Pills	78/	2/9..Rabuteau's Syrup Ferrug.	24/6
1/9.. „ Pâté	15/	2/9.. „ Pills	24/	1/1½ Papier Fayard	6/9	4/ ..Racahout des Arabes	31/
6/6..Bay Rum	57/	4/6..Clin's Dragées Bromide Cam.	45/	2/3.. Ditto	13/6	4/6..Reynal's Bougies	38/
3/6.. Ditto	31/	5/ ..Eau de Botot (Genuine)	40/	2/3..Papier Fruneau	14/6	2/9..Ricord's Injection	24/
2/ ..Belloc's Charcoal	15/	3/ .. Ditto	24/	4/ .. Ditto	24/6	4/6.. „ Capsules	36/
1/9.. „ Lozenges	15/	2/ ..Espic's Cigarettes	13/6	1/9..Pâté d'Aubergier	15/	9/ .. „ Syrup..90/; 4/6,	42/
4/6..Blancard's Pills	32/	4/6..Elixir de Coca (Mariani)	48/	1/9.. „ de Berthé	15/6	1/6..Star Paper	11/
2/6.. Ditto	18/	2/9..Flon's Syrup	23/	2/9.. „ de Coca Mariani	25/	1/9..Vallet's Pills	14/6
4/6..Breu's Injection	27/	..Gayetty's Paper		1/9.. „ de Georgé	14/6	2/9.. Ditto	23/
4/6..Bugeaud's Wine	36/	2/3..Granules Arsen. Acid	13/6	1/1½ „ Ditto	9/	4/6..Velontine (White, Pink, Oim.)	22/
3/6..Bully's Vinegar	30/	2/9.. „ „ Iron	14/5	1/6.. „ de Nafé	13/6	3/6.. Ditto ditto	22/
2/ .. Ditto	14/6	2/9.. „ „ Soda	15/4	1/9.. „ Regnauld	14/6	2/9..Vichot's Trochisques	22/
4/6..Candé's (Lait Antéphiliq.)	36/	2/9..Grimault's Syrup Lime	24/	7/ ..Pierlot's Valerian	60/	4/6..Vin Mariani	36/
4/6..Capsules Bromide Camph.	45/						

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CHLORODYNE.

THE ORIGINAL AND ONLY GENUINE.

IMPORTANT CAUTIONS.

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD, and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that "Dr. J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as deliberately untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital."

The VICE-CHANCELLOR also stated, "that Chlorodyne was a fanciful name, and had application been made sooner, the Court would have given Dr. Browne protection."

LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated, "that had application been made at a proper time and place, the Court would have found means to restrain the Defendant from misrepresenting the decision of the Vice-Chancellor."

LORD JUSTICE JAMES, on appeal, stated in his judgment, "that the Defendant Freeman had made a deliberate misrepresentation of the decision of Vice-Chancellor Wood."

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the *Times*, November 14th, 1865, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never used any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant publishes the said testimonial as referring to his medicine.

The Editor of the *Medical Times*, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne referred to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published by the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and other were produced in Court, stating that Dr. J. Collis Browne was the inventor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation; nevertheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now incumbent on all who purchase Chlorodyne to see that the name, Dr. J. Collis Browne's Chlorodyne, is engraved on the Government Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts at analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:—

Apothecaries' Hall,	London
Allen, Hanbury & Co.,	"
Baiss Brothers,	"
Banks & Richards,	Birmingham
Barron, Harvey & Co.,	London
Bell, John, & Co.,	"
Bourne & Taylor,	"
Corbyn & Co.,	"
Cox & Gould,	"
Curling & Co.,	"
Curtis & Co.,	"
Davy, M'Murdo & Co.	"
Dobbin, W., & Co., Limited,	Belfast
Drew, Barron & Co.,	London
Drew, B., & Alexander,	"
Dunn & Company,	"
Edwards, W.,	"
Evans, Gadd & Co.,	Exeter
Evans, Lescher & Webb,	London
Ferris & Co.,	Bristol
Foulger, S., & Son	London
Frazer & Green,	Glasgow
Gale & Co.,	London
Giles & Son,	Clifton
Goulding, Messrs.,	Cork
Gratton & Co.,	Belfast
Grimwade, Ridley,	London
Grindley & Son,	Chester
Hearon, Squire & Francis,	London
Hodgkinson, Tonge & Stead,	"
Hopkins & Williams,	"
Hovenden, R., & Sons,	"
Hunt & Co.,	Exeter
Hunt, A., & Co.,	"
Johnson, J. H. & S.,	Liverpool
Langton, W., & Co.,	London
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Marsden & Sons,	London
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Mackay, John, & Co.,	Edinburgh
Morson, T., & Son,	London
Newbery & Sons,	"
Oldham, G., & Co.,	Dublin
Parsons & Richardson,	Leicester
Peake, Allen, & Co.,	Dublin
Raimes & Co.,	York
Raimes & Co.,	Edinburgh
Sang & Barker,	"
Sanger, J., & Sons,	London
Sim, James, & Co.,	Aberdeen
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Southall & Co.,	Birmingham
Sutton, W., & Co.,	London
Tomlinson, Hayward & Co.,	Lincoln
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4. Because they are not subjected at any stage of preparation to the injurious action of heat.
5. Because the coating of *pure transparent gelatine* preserves the contents from oxidation.
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Aloes, all the B.P. combinations ..... 5 gr.
Aloes, Dilute (Dr. Hall Dinner Pill) ..... 4 gr.
Aloes Barb. | Pulv. Ext. Glycyrrh.
Saponis Pulv. | Theriaca, āā ..... 1 gr.
Aloes and Nux Vomica—
Aloes Soc. ..... 1½ gr. | Ext. Nucis Vom. .... ½ gr.
Aloin ..... 1/10, ¼, ½, 1 gr.
Aloin, various combinations.
Anti-Dyspepsia (Fothergill)—
Strychninæ ..... 1/50 gr. | Pulv. Ipecac. ..... 2-3 gr.
Pulv. Piper Nig. ..... 1½ gr. | Ext. Gent. ..... 1 gr.
Arsenious Acid ..... 1-20, 1-50 gr.
Asafœtida, U.S. and B.P. ..... 5 gr.
Atropine ..... 1-100, 1-300 gr.
Blue Pill, B.P. ..... 1, 2, 3, 5 gr.
Blue Pill, with Colocynth and Hyoscyam. ..... 5 gr.
Calcium Sulphide ..... 1-10, 1-4, 1-2, 1 gr.
Calomel, Colocyn., and Hyosc. ..... 5 gr.
Calomel Co., B.P. ..... 5 gr.
Camphor and Hyoscyam ..... 2 gr.
Camphoræ. | Ext. Hyoscy., āā ..... 1 gr.
Cannabis Indica ..... 1-4, 1-2 gr.
Cascara Sagrada ..... 3 gr.
Cathartic Comp., U.S.P.
Ext. Jalap ..... 1 gr. | Hyd. Subchlor. ..... 1 gr.
Ext. Coloc. Co. .... 1 1-3 gr. | Gambog. ..... 1-4 gr.
N.B.—The ready solubility of the "McK. & R." Pills is readily proved by taking a dose of these.
Colocynth Comp., B.P. ..... 4, 5 gr.
Colocynth, other combinations.
Copaiba Compound—
Cubebæ Pulv. ..... 2 gr. | Mass. Copalb. ..... 1 gr.
Ferri Sulph. Exsic. .. 1-2 gr. | Tereb. Venet. .... 1 1-2 gr.
Corrosive Sublimate ..... 1-30, 1-20, 1-10 gr.
Croton Oil ..... 1-2 gr.
Diuretic—
Ext. Buchu, Potass. Nitrat. ..... 1 gr.
Scillæ Pulv. ..... 1-2 gr.
Emmenagogue—
Ferr. Sulph. Exsic. ..... 1 1-2 gr.
Thus, American ..... 1 1-2 gr.
Aloes Socot. ..... 1-2 gr.
Ergotin ..... 3 gr.
N.B.—Each Pill = 30 gr. ergot or 30 ms. fl. extract. This form is more reliable and uniform in effect and more agreeable than the liquid preparations.
Euonymin ..... 2, 3 gr.
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Ipecac. Co. ..... 5 gr.
Ipecac. and Squill, B.P ..... 5 gr.
Iron Pill, B.P. Add. ..... 3, 5 gr.
Iron Arseniate ..... 1-8 gr.
Iron reduced by Hydrogen (Quevenne) ..... 1, 4 gr.
Iron and Quinine Citrate ..... 2 gr.
Laxative, Vegetable—
Res. Podoph. | Ext. Coloc. Co. ..... 1 gr.
Ext. Hyoscy. | Jalapæ
Ext. Tarax, āā ..... 1-4 gr. | Res. Leptand. āā .... 1-2 gr.
Ol. Menth. Pip.
Mercury, Biniodide ..... 1-16 gr.
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So-called "green" prote-iodide contains uncombined mercury.
Mercury with Chalk ..... 1 gr.
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Nitro-Glycerine ..... 1-200, 1-100, 1-50 gr.
Opium ..... 1 gr.
Opium and Camphor ..... 1 gr.
Opii Pulv. ..... 1 gr. | Camphoræ ..... 2 gr.
Pepsin, Pure ..... 1 gr.
Phosphorus ..... 1-100, 1-50, 1-30 gr.
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Phosphor. Pur. .... 1-50 gr. | Ferr. Redact. ..... 2 gr.
Phosphorus, Iron, and Quinine—
Phosphor. Pur. .... 1-100 gr. | Ferri Carb. ..... 1 gr.
Quininæ Sulph. ..... 1 gr.
Phosphorus and Nux Vomica—
Phosphor. Pur. ..... 1-50 gr. | Ext. Nucis Vom. .... 1-4 gr.
Phosphorus and Quinine—
Phosphor. Pur. ..... 1-50 gr. | Quininæ Sulph. ..... 1 gr.
Phosphorus and Valerianate of Zinc—
Phosphor. Pur. ..... 1-50 gr. | Zinci Valer. ..... 1 gr.
Picrotoxin ..... 1-30 gr.
Podophyllin ..... 1-8, 1-4, 1-2 gr.
Quinine, Bisulphate ..... 1-4, 1-2, 1, 2, 3, 4, 5 gr.
Quinine, Sulphate ..... 1-4, 1-2, 1, 2, 3, 4, 5 gr.
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Tonic Laxative (Fothergill)—
Quininæ Sulph. .... 2-3 gr. | Ferri Redact.
Strychn. ..... 1-30 gr. | Ext. Bellad., āā ..... 1-4 gr.
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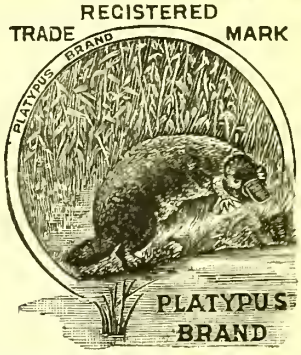

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KRESYLINE DISINFECTING FLUID (Soluble Creasote). In 6*d.*, 1/-, and 2/- bottles. In 1-gal. cans, cans included, at 4/- per gal.

CARBOLIC ACID (Black), for Sewage Disinfection.

CARBOLIC ACID No. 5 (Light Brown). In 1-gallon cans, cans included. 4/- per gallon.

CARBOLIC POWDER 15%. In 1/- tins. In ¼-cwt., ½-cwt., and 1-cwt. packages, packages extra, at 6/6 per cwt.

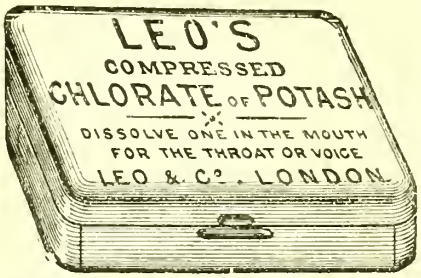
SPECIAL QUOTATIONS FOR QUANTITY.

MACKEY, MACKEY & CO.

1 & 2 BOUVERIE STREET, FLEET ST., E.C.

Ammon. Brom.
Ammon. Chlor.
Antifebrin
Antipyrin
Bismuth Subnit.
Chloralamid
Ipecac. Powd.
Ipecac. & Opium
Pepsine, B.P.
Phenacetin
Potass. Bicarb.
Potass. Brom.

When ordering specify LEO'S.



They are supplied by all the Wholesale Houses.

COMPRESSED CHLORATE of POTASH.

CHLORATE OF POTASH & BORAX.

These products maintain their high reputation for general excellence of quality and finish.

Quotations given for large and small quantities.

Potass. Iodide
Quinine
Salol
Salicin
Soda Bicarb.
Soda Mint
Soda Salicylate
Sulphonal
Sulphur Compound
Urethane
Voice (Potass. Chlor., Borax and Cocaine)

[2]

LEO & CO.

8 CREECHURCH LANE, LONDON, E.C.

WOODS & CO.'S KANGAROO ISLAND

RECTIFIED OIL OF EUCALYPTUS.

Registered "LUBRA BRAND" throughout the World.

Owing to the low temperature and the species of Eucalypt grown on Kangaroo Island, S. Australia, which we use in the preparation of *our Oil*, we are enabled to produce a

SUPERIOR COLOURLESS OIL,

boiling at 320° Fahr. (160° Cent.), distilling over at 340° Fahr. (170° Cent.), and, consequently, gives the low specific gravity of ·900.

REGISTERED.

This Oil dissolves 25 per cent. Salicylic Acid, showing greater purity than any other.

Eighty parts of Proof Spirit dissolves one part of our Oil, without producing any milky opacity.

When redistilled yields EUCALYPTOL of the same specific gravity and quality as when prepared by Cloez's process.

Mr. JAS. PARKINSON, F.C.S., of the Royal College of Chemistry, London (formerly Analyst to the S. Australian Government for 8 years), in his report, says it is **superior to other productions.** and virtually **Eucalyptol.** We invite a trial. The Trade and Medical Profession will find this the *best Oil* to keep in stock for Dispensing and other use.

Put up in 1-lb. Bottles for the Trade, and in Bottles at 1s. 3d. each for Retailing; also in 20 or 25 lb. Hand-made Tins.

WOODS & CO., Cowra Chambers, Grenfell St., ADELAIDE, S.A.
London Agents—F. & S. CHIESMAN & CO., 118 BISHOPSGATE STREET.

67

BOSISTO'S "STANDARD TEST"

EUCALYPTUS OIL

PARROT

BRAND.

Sold only in 1-lb. and 2-lb. Bottles.

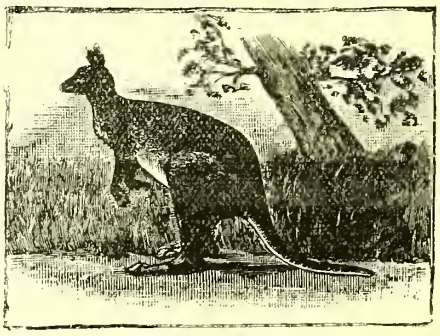
This Oil is the product of Fresh Eucalyptus Foliage obtained from the Desert species, Dumosa and Oleosa, and yields under proper treatment 35 per cent. water-white crystallisable Eucalyptol, having the specific gravity, 0·920, Temp. 15° Cent., crystallising at 14° Cent., and re-melting at 1° Cent. **BOSISTO'S EUCALYPTUS OIL** received the Silver Medal of the Society of Arts for the introduction into commerce of the Essential Oil of the Eucalyptus from Australia, 1866, and has been awarded at various European, American, and Australian Exhibitions since 1853, **10 Gold Medals, 8 Silver Medals, 18 Bronze Medals.**

Quantities less than original packages supplied by Messrs. Allen & Hanburys, Barron, Harvey & Co., A. S. Hill & Sons, Hockin, Wilson & Co., London & Manchester; Hodgkinson, Treacher & Clarke; Grimwade, Ridley & Co., Ipswich. Or in **original cases only,** containing either 36 1-lb. bottles, or 25 2-lb. bottles, by the **Sole Consignees,**

GRIMWADE, RIDLEY & CO., 82 BISHOPSGATE ST., LONDON.

KANGAROO

EUCALYPTUS OIL

25-lb. Tins.  **25-lb. Tins.**

KANGAROO BRAND.

TRADE MARK.

Is admitted to be the Purest Eucalyptus Oil yet introduced to the public. To be obtained of your Wholesale Druggist.

SOLE CONSIGNEES—LAUGHLAND, MACKAY & BAKER, 50 Lime St., LONDON.

COLONIAL ADDRESS—A. M. BICKFORD & SONS, WHOLESALE DRUGGISTS, 46 CURRIE STREET, ADELAIDE.

58

JEYES' FLUID

THE NON-POISONOUS DISINFECTANT.

A TRUE GERMICIDE & DEODORISER,

Somewhat less refined than **CREOLIN**, the virtues of which are

RECOGNISED BY MEDICAL AUTHORITIES ALL OVER THE WORLD.

Jeyes' Fluid and its Preparations

SHOULD BE RECOMMENDED BY THE CHEMIST EVERYWHERE WHO DESIRES TO SUPPLY ONLY RELIABLE ARTICLES.

PRICE LIST

(ABBREVIATED).

Jeyes' Fluid.

Retail Prices. s. d.		Trade Prices. s. d.
0 6	Sixpenny Bottles (bottles included)	4 0 per doz.
1 0	Shilling " (bottles included)	7 0 "
3 6	½-gall. Iron Drums (drums included)	2 6 each
6 0	1-gall. Drums " "	4 6 "
11 6	2-gall. " " "	8 6 "
28 6	5-gall. " " "	20 0 "
55 0	10-gall. " " "	38 6 "
Per gall.		
5 0	20 and 40 gall. Casks (casks free, not returnable)	3 6 per gall.
1 1½	UNIVERSAL PERFECT PURIFIER (in bottles)	8 6 per doz.

Sanitary Powder.

1 0 each	Canisters, in boxes of 1, 2, or 3 doz.	7 0 per doz.
0 6 "	" " " "	4 0 "

(Also in Casks and Bags.)

Disinfectant (Brown) Soap or Household (White) Soap.

No. 1 QUALITY.—(In 1-lb. Bars, papered.)

Per cwt.		
31 6	In 1-cwt. Boxes	28 0 per cwt.

(Also in Small Packages.)

No. 2 QUALITY.

Retail Prices. s. d.		Trade Prices. s. d.
25 6	In 1-cwt. Boxes	22 0 per cwt.

(Also in Small Packages.)

Triple Milled Toilet Soaps.

Elegant Tablets for the Toilet, of finest quality, containing the Antiseptic Properties of "Jeyes' Fluid."

Per box.		
1 6	Perfect Purifier, in Boxes of 6 Tablets	1 0 per box.
1 6	Coal Tar, per Box of 6 Tablets	1 0 "
2 0	Old Brown Windsor, in Boxes of 12 Tablets	1 6 "
2 6	Toilet (Scented), in Boxes containing 6 Tablets	1 9 "
2 6	Sublime Toilet (Unscented) in Boxes of 6 Tablets	1 9 "
3 0	Sublime Toilet (Scented)	2 0 "
2 0	Boudoir Tablets (Perfumed), in Boxes of 3 Tablets	1 4 "
5 0	Transparent, Complexion, in Boxes of 12 Tablets	3 0 "

Toilet Preparations.

1 0 each	Tooth Powder, in Metal Boxes	7 0 per doz.
1 0 "	" Soap, " "	7 0 "
2 0 "	Dentifrice Water, in Bottles, with Sprinkler	15 0 "
3 6 "	Spray Diffuser, in Box complete	30 0 "

Sheep Dip, Wood Preserver, and other Agricultural Preparations.

TERMS, 2½ PER CENT. DISCOUNT AT ONE MONTH.

All Goods delivered Free in London. For the Country, Free at any London Railway Station or Wharf.

FULL PRICE LIST ON APPLICATION.

ALSO

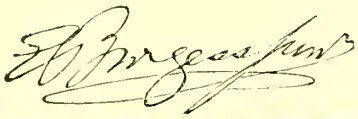
A NEW MEDICAL PAMPHLET,

With Recent Opinions of English Medical Men, free on request.

JEYES' SANITARY COMPOUNDS CO. Ltd.

43 CANNON STREET, LONDON, E.C.

The above are now supplied ONLY from 59 Gray's Inn Road, W.C., through the Wholesale Houses.



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ENGRAVED WINDOW TABLETS

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Sole Agents in United Kingdom and Colonies, excepting Canada, for
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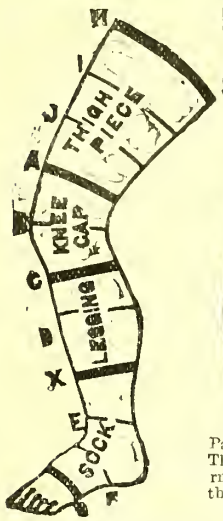

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Patent Pile, Protected, 14,618. The Pile lying over the India-rubber Cords, protecting them and forming a smooth soft surface to the limb.

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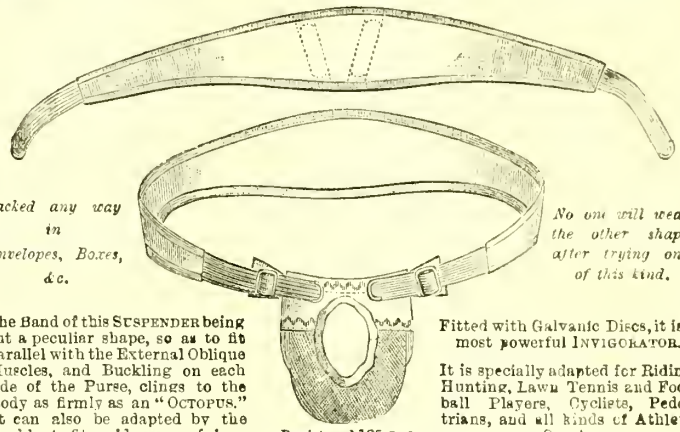

Packed any way in Envelopes, Boxes, &c.

No one will wear the other shape after trying on of this kind.

The Band of this SUSPENDER being cut a peculiar shape, so as to fit parallel with the External Oblique Muscles, and Buckling on each side of the Purse, clings to the Body as firmly as an "OCTOPUS." It can also be adapted by the buckles to fit a wide range of sizes.

Registered, 185,228.

Fitted with Galvanic Discs, it is a most powerful INVIGORATOR.

It is specially adapted for Riding, Hunting, Lawn Tennis and Football Players, Cyclists, Pedestrians, and all kinds of Athletic Sports.

Handbook of my Manufactures will be forwarded to any Surgical Instrument Maker or Chemist free.

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Plastic Surgical Stockings, Knee Caps, &c.
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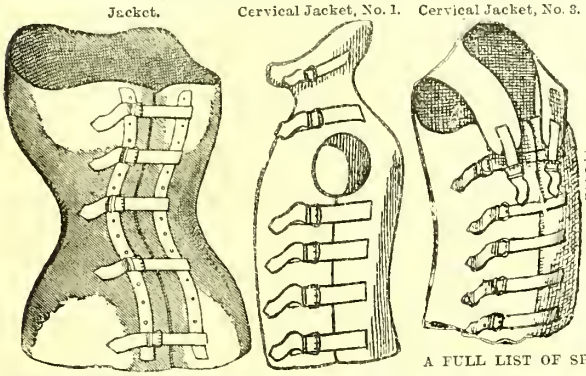
Patentee and Sole Manufacturer, J. T. COCKING, PLYMOUTH.

Jacket. Cervical Jacket, No. 1. Cervical Jacket, No. 3.



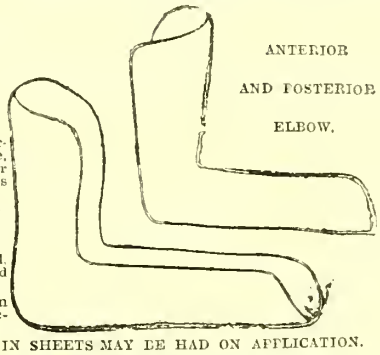
JACKET
(In cases of slight deformity).

INSTRUCTIONS FOR MEASUREMENT.
Circumference at axilla.
" waist.
" hips.
Length from axilla to great trochanter.

In severe angular cases, circumference over apex of curve, position of ditto, and contour should be given; in lateral cases a description of the case.
In all cases it must be stated if for male or female.

CERVICAL JACKETS.
Same measurements required, and circumference at neck, and length from neck to axilla.

Any part of the Jacket can in the procese of manufacture be left soft.



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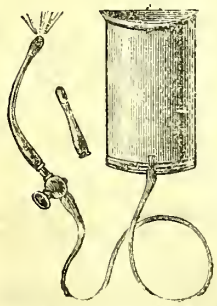
THE CHEAPEST AND BEST IN THE MARKET.



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No. 571A. ENEMA DOUCHE, for hanging or standing up, consisting of two-pint Bronzed Canister, fitted with 6 ft. best Black Tubing, Vulcanite Stopcock, Rectum and Vaginal Tubes to plug on, in a card box (as Fig. 571) .. 4/-
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No. 575. Ditto, the same, but with two-pint Nickel Tin Canister 5/9
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ENEMAS. DOZEN

No. 558A. Enema, seamless, in one continuous piece, without metal joints, black, red, or green, in oval boxes, complete as illustration. *Very best quality*.... 30/-

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BOTTLES, &c., of ANY SHAPE OR COLOUR, at the most Reasonable Prices.

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R. H. BARRETT'S PATENT CAPPED BOTTLE.

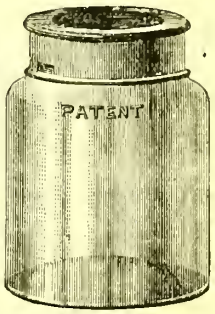
THE ONLY REALLY PERFECT BOTTLE FOR VASELINE, POMADES, DRY POWDERS, ETC.

NOTICE REDUCTION IN PRICES.

PRICES (in 5-gross Lots):—Fitted with STRONG METAL CAPS, CORK-LINED, in various colours, very attractive in appearance—1 oz., 10/6; 1½ oz., 11/-; 2 oz., 11/6; 3 oz., 13/6; 4 oz., 15/6 per gross.

CHEMISTS' AND PERFUMERS' BOTTLES IN GREAT VARIETY, PLAIN OR STOPPERED.

R. H. BARRETT,
FLINT GLASS BOTTLE WORKS,
THE OVAL, CAMBRIDGE HEATH, LONDON, E.
Telegraphic Address—"FOREFRONT LONDON." [2]



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Best Dispensing Bottles in all Shapes, including Round-cornered, and any Fancy or other Shapes for Proprietary Articles.

REGISTERED TRADE MARK.

SPECIALITIES.

Hand-made Rounds, Opal, Flint, and Turquoise Boxes.

Every attention given to any coloured and special-shaped Bottles.

White Flint, Blue Tint, Green Tint, Rich Dark and Pale Amber, Jet Black, Actinic Green, and all shades of Blue.

WHOLESALE ONLY.

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VINCENT WOOD

LATEST SPECIALITIES.

		Gross Pair
The Vinwood Bath Glove (as sketch), in Turco, Linen, or Loofah, from ..		54/-
Ordinary Style Turco, No. 1 quality, Bound		30/-
Ditto, Fancy Linen, No. 5 quality, Bound		48/-
Flesh Belts ..	Per gross, single	78/-
Ditto, Turco and Loofah	"	90/-
Loofahs (large) ..	"	30/-
Enemas, as Higginson's, disconnected, each in Cedar-wood Box	Per doz.	30/-
Ditto, Seamless, best quality ditto, Cloth Covered Box ..	Per doz.	30/-

Largest bonâ-fide maker of Surgical Appliances in the World.

3 St. Andrew's St., Holborn Circus, LONDON, E.C.

Estab. 1840. Trade Mark—V.W. L. "EUREKA."

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GOOD AND CHEAP.

From Stock in London or direct from the works.

THE NEW SHAPE FLATS,

With rounded edges, or the ordinary kind, plain or graduated.

3 and 4 ounce .. .. 8/- per gross.
6 and 8 " .. .. 9/- "

WHITE MOULDED PHIALS.

½ oz.	1 oz.	1½ oz.	2 oz.
3/6	3/9	4/6	5/3 per gross.

PANEL BOTTLES.

2 oz.	4 oz.	6 oz.	8 oz.
7/-	8/-	9/-	9/- per gross.

SPECIAL NOTICE.—Six gross and upwards of assorted sizes sent Carriage Free to any part of England. Smaller quantities not carriage paid. Sample Bottle sent free on application.

I. ISAACS & CO., GLASS BOTTLE MANUFACTURERS,
Francis St., Tottenham Court Road, LONDON, W.C.
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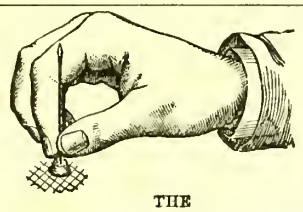

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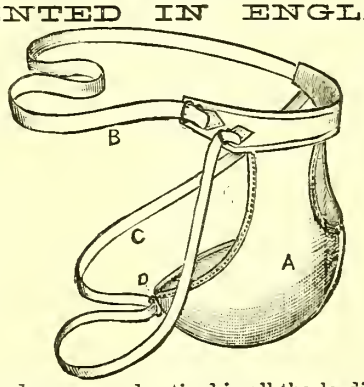

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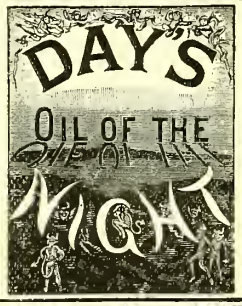

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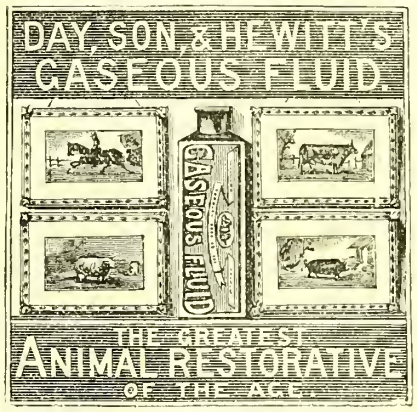

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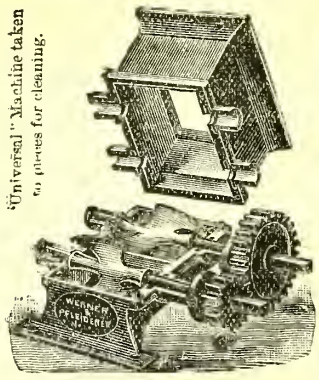

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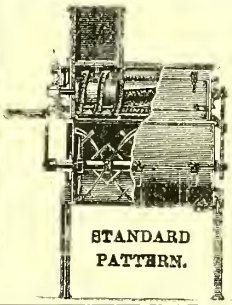

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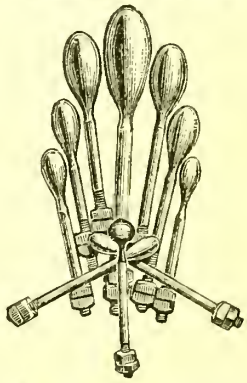

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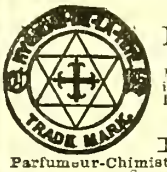

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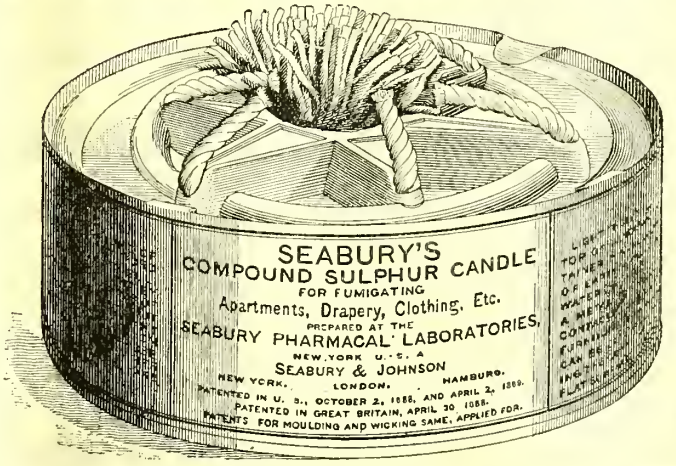

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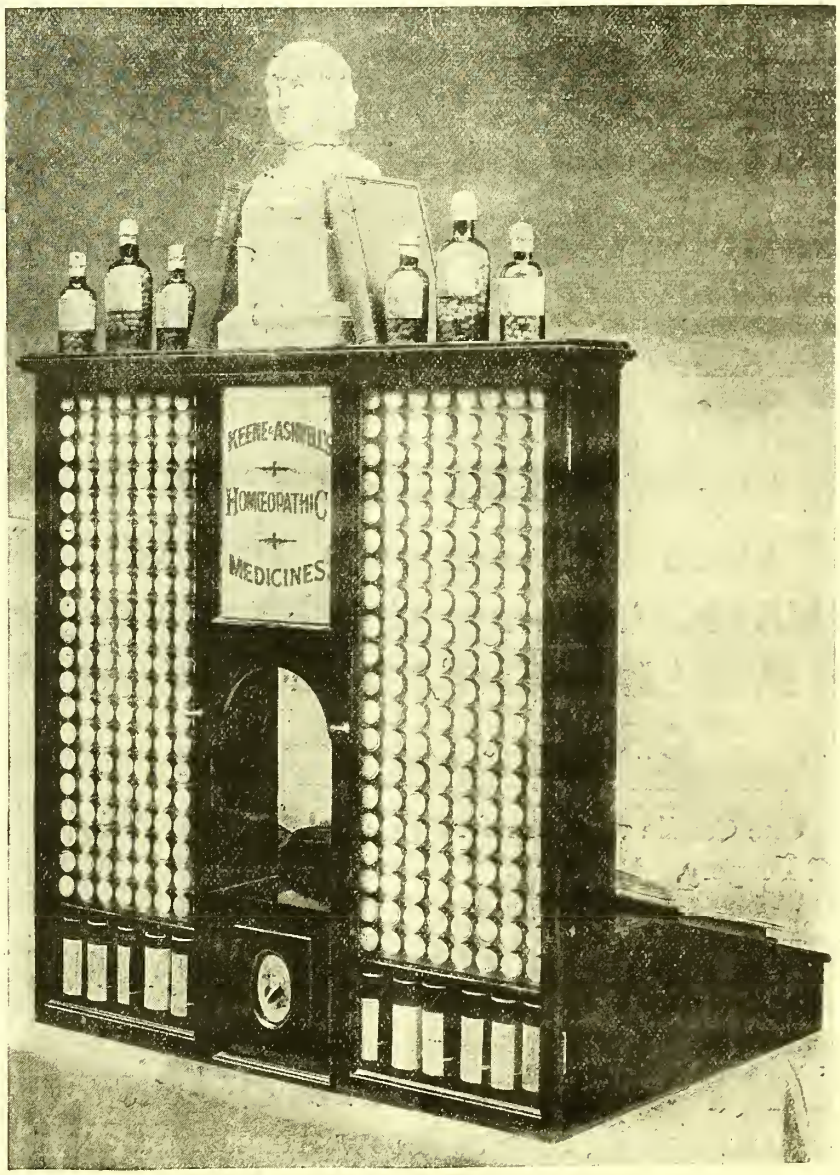

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